

भारत का राजपत्र
The Gazette of India

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं० 5] नई दिल्ली, शनिवार, फरवरी 4, 1989 (माघ 15, 1910)
No. 5] NEW DELHI, SATURDAY, FEBRUARY 4, 1989 (MAGHA 15, 1910)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE
PATENTS AND DESIGNS

Calcutta, the 4th February 1989

ADDRESS AND JURISDICTION OF OFFICES OF
THE PATENT OFFICE

The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial jurisdiction on a zonal basis as shown below :—

Patent Office Branch,
Todi Estates,
III Floor, Lower Parel (West),
Bombay-400 013.

Telegraphic address "PATOFFICE".

The States of Gujarat, Maharashtra, and Madhya Pradesh, and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Patent Office Branch,
Unit No. 401 to 405, III Floor,
Municipal Market Building,
Saraswati Marg, Karol Bagh,
New Delhi-110 005.

Telegraphic address "PATENTOFIC".

1-447 GI/88

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

Patent Office Branch,
61, Wallajah Road,
Madras-600 002.

Telegraphic address "PATENTOFIS".

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Patent Office (Head Office),
"NIZAM PALACE", 2nd M. S. O. Building,
5th, 6th and 7th Floor,
234/4, Acharya Jagadish Bose Road,
Calcutta-700 020.

Telegraphic address "PATENTS".

Res of India.

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

Fees :—The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

ALTERATION OF AN ENTRY IN THE REGISTER OF PATENT AGENTS UNDER RULE 103 OF THE PATENTS RULES, 1972

In pursuance of application on Form 52 the address for service and principal place of business of Shri K. T. Jose have been altered to :

12/12, IIG Welcome Apartments,
Thirumangalam,
Anna Nagar West,
Madras-600 101.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20.

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

The 28th December 1988

- 1068/Cal/88. Lonis Kedves. Measure distributor container for granules.
- 1069/Cal/88. Fried Krupp Gesellschaft Mit Beschränkter Haftung. Tilttable metallurgical vessel.
- 1070/Cal/88. Texaco Development Corporation. Improved quench ring for a gasifier.
- 1071/Cal/88. Texaco Development Corporation. Improved quench ring for a gasifier.
- 1072/Cal/88. Compagine De Raffinage Et De Distribution Total France S. A. Process and apparatus for conversion of hydrocarbons.
- 1073/Cal/88. Gur Charan Saini. Green-house effect electric oven.

The 29th December 1988

- 1074/Cal/88. Pennwalt Corporation. Preparation of alkanesulfonyl halides and alkanesulfonic acids.
- 1075/Cal/88. Armco Advanced Materials Corporation. Duplex stainless steel with high manganese.
- 1076/Cal/88. Huhtamaki Oy. Cassette system and apparatus for manufacturing an active agent liberating capsule for subcutaneous use.

The 2nd January 1989

- 1/Cal/89. Societe Chimique Des Charbonnages S. A. A process for the polymerisation of ethylene or copolymerisation of ethylene with at least α -olefine. [Divisional date 31-10-85].
- 2/Cal/89. Radiotekhnichesky Institut Imeni Akadehika A. I. Mintsu Akademii Nauk SSR. Light guide device for phototherapy.
- 3/Cal/89. Institut Fiziki Vysokikh Davleniy Imeni L. F. Vereschagina Akademii Nauk SSSR. High pressure cell.
- 4/Cal/89. Nauchno-Proizvodstvennoe Obiedinenie Po Mekhanizatsii, Robotizatsii Trudai Sovershenstvovaniyu Remontnogo Obespechenia Na Predpriyatiyakh Chernoi Metallurgii NPO "Chermetmetkhanizatsia" Vertical Centrifugal casting machine.
- 5/Cal/89. (1) Kramatorsky Industrialny Institut, (2) Proizvodstvennoe Obiedinenie "Nevsky Zavod" Imeni V. I. Lenina; (3) Proizvodstvennoe Obiedinenie "Novokramatorsky Mashinostroitelny Zavod". Vibration Generator.
- 6/Cal/89. Lanxide Technology Company LP. Method of making metal matrix composites.

- 7/Cal/89. Lanxide Technology Company, LP. Method of making metal matrix composite with the use of a barrier.

- 8/Cal/89. Carrier Corporation. Suction enhancement for a wavy plate-fin.

- 9/Cal/89. Edward S Robbins, III; Theodore J Onocki. Container with unitary bladder and associated dispenser cap.

APPLICATION FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, THIRD FLOOR, KAROL BAGH, NEW DELHI-110005.

The 5th December 1988

- 1061/Del/88. Council of Scientific & Industrial Research. "A process for making of tabular alumina".
- 1062/Del/88. Council of Scientific & Industrial Research. "A process for the production of an improved quality of active carbon from wood charcoal of subabul type".
- 1063/Del/88. I. Air Liquide, Societe Anonyme Pour L'Etude Et L'Exploitation Des Proceeds Georges Claude. "Process for production of aromatic aldehydes".
- 1064/Del/88. Motorola Inc. "Universal frequency assignment protocol for trunked radio systems".

The 6th December 1988

- 1065/Del/88. Inspector General Communication B. S. F. "Intrusion detection system-Night watch".
- 1066/Del/88. Director Police Telecommunications. "Improvement in mobile telephone system".
- 1067/Del/88. Sunder Lal Gupta. "Air engine".
- 1068/Del/88. Fosroc International Ltd. "Settable composition".
(Convention date 8th December, 1987) (U.K.).
- 1069/Del/88. Hughes Aircraft Co. "Stabilized pointing mirror".

The 7th December 1988

- 1070/Del/88. Council of Scientific & Industrial Research. "A process for the preparation of 3-aryl-1-hydroxy-but-3-en-2-hydroperoxides".
- 1071/Del/88. Council of Scientific & Industrial Research. "A process for the preparation of Mefloquine, an anti-malarial drug".
- 1072/Del/88. Whirlpool Corporation. "Pump motor/basket brake for an automatic washer".
- 1073/Del/88. Sir Padampat Research Centre. "An Improved process for flame retardant acrylic fibre".
- 1074/Del/88. Mitsui Petrochemical Industries, Ltd. "Process for exchanging dispersing medium of terephthalic acid slurry".
- 1075/Del/88. Simon Kornbaum. "Stabilization process for halogenated polymer of copolymer-based blends during processing and stabilization systems for this purpose".
- 1076/Del/88. Tenneco Canada Inc. "Combined process for production of chlorine dioxide and sodium hydroxide".
(Convention date 26th July, 1988) (Canada).
- 1077/Del/88. Allied Signal Inc. "Reduction of carboxyl and groups in polyester with lactim ethers".

The 8th December, 1988

- 1078/Del/88. U. O. P., "A new improved catalyst for mid-barrel hydrocracking and process using same".
- 1079/Del/88. Spetsialnoe Konstruktorsko Tekhnologicheskoe Bjuro PO Izolyatoram i Armature VPO, "Sojuzelektrosetizolyastia", "High voltage suspension insulator".
- 1080/Del/88. M & T Chemicals Inc., "Method of fabricating semiconductor devices".

The 9th December 1988

- 1081/Del/88. Fuller Co., "Gaseous fluid supply system for a vessel".
- 1082/Del/88. Long Mile Rubber Co., "Method and apparatus for recapping a tire with a flexible segmented mold".
- [Divisional date 6th May, 1986].
- 1083/Del/88. The Firestone Tire & Rubber Co., "A process for simultaneously or sequentially extracting resin and rubber from guayule plants". [Divisional date 3rd April, 1986].

The 12th December 1988

- 1084/Del/88. David M. Geshwind., "An improved method of colorizing black and white footage".
- 1085/Del/88. Westinghouse Brake and Signal Co. Ltd., "Shaping silicon semiconductor wafers". (Con-date 10-12-87) (U. K.).
- 1086/Del/88. David M. Geshwind, "A method to convert two dimensional motion pictures for three dimensional systems".
- 1087/Del/88. David M. Geshwind, "A method for transmitting high-definition television over low bandwidth channels".

The 13th December 1988

- 1088/Del/88. Exxon Research and Engineering Co., "Method for isomerizing wax to lube base oils using a sized isomerization catalyst".
- 1089/Del/88. Exxon Research and Engineering Co., "Wax isomerisation catalyst".
- 1090/Del/88. Exxon Research and Engineering Co., "Wax isomerisation catalyst".
- 1091/Del/88. Exxon Research and Engineering Co., "Catalyst for the hydroisomerization and hydrocracking of fischer-tropsch waxes to produce liquid hydrocarbon fuels".
- 1092/Del/88. Exxon Research and Engineering Co., "Process for the hydroisomerization of fischer-tropsch wax to produce lubricating oil".
- 1093/Del/88. Exxon Research and Engineering Co., "Method for isomerizing wax to lube base oils using an isomerization catalyst".
- 1094/Del/88. Exxon Research and Engineering Co., "Process for the hydroisomerization of wax to produce middle distillate products".
- 1095/Del/88. Exxon Research and Engineering Co., "Improved yields of 5, 6-5.9 CST/100°C oil by wax isomerization employing low treat gas rates".
- 1096/Del/88. Exxon Research and Engineering Co., "Process for the hydroisomerization and hydrocracking of fischer-tropsch waxes to produce a syn crude and upgraded hydrocarbon products".
- 1097/Del/88. Exxon Research and Engineering Co., "Wax isomerization process using palladium on fluorided alumina catalyst".
- 1098/Del/88. Exxon Research and Engineering Co., "A method for stabilizing hydroisomerates".
- 1099/Del/88. Exxon Research and Engineering Co., "Method for isomerizing wax to lube base oils".

The 14th December 1988

- 1100/Del/88. La Telemecanique Electrique, "A protected electric switching apparatus and a device for fixing same".
- 1101/Del/88. The Procter & Gamble Co., "Improved, controlled temperature process for making 2,2-oxodisuccinates useful as laundry, detergent builders".

The 15th December 1988

- 1102/Del/88. Council of Scientific & Industrial Research, "An improved process for the isolation of human alpha fetoprotein".
- 1103/Del/88. Council of Scientific & Industrial Research, "A process of making high T_c superconductor wires sheets and strips".
- 1104/Del/88. Council of Scientific & Industrial Research, "A process for the synthesis of 6- (A-arylvinyl) -1, 2, 4 trioxanes".
- 1105/Del/88. Council of Scientific & Industrial Research, "A process for the preparation of binder from waste, paper for the manufacture of briquettes from fuel fines".
- 1106/Del/88. Council of Scientific & Industrial Research, "A process producing dead burnt dolomite from by-product dolomite concentrate obtained while beneficiation of low grade rock phosphate ore".
- 1107/Del/88. Council of Scientific & Industrial Research, "Process for the preparation of a crystalline ferri-alumino-silicate".
- 1108/Del/88. Council of Scientific & Industrial Research, "Preparation of flower absolutes using liquid carbon dioxide extraction".
- 1109/Del/88. Council of Scientific & Industrial Research, "A process for production of smokeless easily ignitable pellets from carbon dust".
- 1110/Del/88. Council of Scientific & Industrial Research, "A process for the syntheses of N-acetylneuramyl - L - N-methylalaninyl-D-isoglutiminyln-substituted amides possessing high immunoadjuvant activity".
- 1111/Del/88. Norsk Hydro a. s., "Method of automatic particle analysis and means for performing the analysis".
- 1112/Del/88. Co Artz, "Deconcentration and homopathic potentization device".
- 1113/Del/88. Fuller Co., "Withdrawal system for vessel".
- 1114/Del/88. American Coin Currency Equipment Corporation, "A control system for cash counting machine".
- [Divisional date 7th May, 1986].

The 16th December 1988

- 1115/Del/88. Elf France, "Device for the dispersion of gas within a liquid phase and application of this device for carrying out treatments comprising the transfer of a gaseous phase into a liquid phase".
- 1116/Del/88. The Uniroyal Goodrich Tire Co., "Plug-resistant archvent a tire mold".
- 1117/Del/88. U.O.P., "Catalytic cracking process".

APPLICATION FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATE, THIRD FLOOR, SUNMILL COMPOUND, LOWER PAREL (W), BOMBAY-13

The 5th December 1988

- 329/Bom/88. Madhusudan Hiralal Desai, "An improved hydraulic drive for delivering shock load".

The 6th December 1988

- 330/Bom/88. Sudhir Amrut Narkhede, "A self-teaching aid".

The 7th December 1988

- 331/Bom/88. Filtra Materials Research Pvt. Ltd. Anti-caking agents for fertilisers.

The 8th December 1988

- 332/Bom/88. Mr. ASPI Pestanji Ginwalla. A mixer-cum hoist machine.

- 333/Bom/88. Standard Tin Works. Tamper proof refilling device at the bottom of oval, round and other shape containers having dispensing neck at the shoulder/top used for packing tooth powder/talcum powder.

The 14th December 1988

- 334/Bom/88. Hindustan Lever Ltd. Casting method.

15th December 1987, Great Britain.

The 15th December 1988

- 335/Bom/88. The Boots Company (India) Limited. Therapeutic agents.

- 336/Bom/88. The Boots Company (India) Limited. Therapeutic agents.

- 337/Bom/88. The Boots Company (India) Limited. Therapeutic agents.

- 338/Bom/88. The Boots Company (India) Limited. Therapeutic agents.

- 339/Bom/88. The Boots Company (India) Limited. Therapeutic agents.

The 16th December 1988

- 340/Bom/88. Hindustan Lever Ltd. Oral Compositions. 13th December, 1987, Gr. Britain.

- 341/Bom/88. Dipankar Sarkar. Audio/Visual interfrated composition.

The 19th December 1988

- 342/Bom/88. Hoechst India Limited. 2, 3, 23-Trihydroxy-urs-12-ene and its derivatives for cognitive disorders.

- 343/Bom/88. Nirmal Pannakal. Public Water Tap.

The 20th December 1988

- 344/Bom/88. Nene Vijay Gajanan. Two speed drive using coaxial reducer.

The 23rd December 1988

- 345/Bom/88. Prasanna N. Paranjpe. A method of manufacturing finned cylinder liners.

APPLICATIONS FOR PATENTS FILED AT THE
PATENT OFFICE BRANCH, 61, WALLAJAH ROAD,
MADRAS-600 002

The 19th December 1988

- 897/Mas/88. B. S. Manjunatha. Multi-lingual typewriter where facility is available for typing upto a maximum of 8 (eight) languages, in a single typewriter.

- 898/Mas/88. Girivas Viswanath Shet. Anti Mosquito Lotion.

- 899/Mas/88. Acme Resin Corporation. Process to enhance the tensile strength of reclaimed sand bonded with ester cured alkaline phenolic resin.

The 20th December 1988

- 900/Mas/88. Atochem. Process for separating ethylene oxide from ethynene oxide containing formaldehyde and/or acetaldehyde as impurities and water.

- 901/Mas/88. Jacques Verlier. No-reusable syringe.

- 902/Mas/88. Henkel Kommanditgesellschaft auf Aktien. Automatic dynamic store.

- 903/Mas/88. Hamlin Transmission Corporation. Variable-ratio transmissions separately and in bicycles.

The 21st December 1988

- 904/Mas/88. Mauser-Werke GmbH. Barrel.

- 905/Mas/88. Schuvert & Salzer Maschinenfabrik Aktiengesellschaft. A method and a device for guiding, holding and cutting a yarn during exchange of spools.

- 906/Mas/88. Immunical Foundation. The Chemo-Sero-Therapeutic Research Institute. Gene fragment coding for rabies virus glycoprotein and process for preparing rabies virus glycoprotein using the same.

- 907/Mas/88. Acme Resin Corporation. Compositions for foundry mulling processes utilizing reclaimed sand.

- 908/Mas/88. Mrs. Hema Mohanlal. A three-dimensional reconstructor for head C. T. Scan.

The 22nd December 1988

- 909/Mas/88. M. Gopison. Barath Wind Boat

- 910/Mas/88. Linde Aktiengesellschaft. Process for purifying a gaseous mixture.

- 911/Mas/88. Maschinenfabrik Rieter AG. Method of and apparatus for removal of fibre flocks from fibre bales.

- 912/Mas/88. Maschinenfabrik Rieter AG. Apparatus for removing fibre flocks.

- 913/Mas/88. Minnesota Mining and Manufacturing Company. Elastic Strand Construction.

The 23rd December 1988

- 914/Mas/88. Lakshminarayanapuram Gopala Iyer Vaidyanathan. Preparation of modified phenol-formaldehyde condensation products and their application as tanning agents.

- 915/Mas/88. Sree Chitra Tirunal Institute for Medical Sciences & Technology. Improvements to rigid shell cardiotomy reservoir.

- 916/Mas/88. Ammonia Casale S. A. Converters for Heterogeneous catalytic synthesis, particularly for ammonia and methanol, under pressure.

PATENTS SEALED

CHENNAI

161551 161915 162198 162262 162309 162421 162484
162592 162701 162708 162709 162714 162717 162751
162784 162787 162794.

DELHI

162246 162247 162442 162451 162491 162532

BOMBAY

162330

MADRAS

162761 162762 162763 162764 162765 162767 162768
162769 162770 162772 162773 162774 162775 162776
162777 162778 162780 162802 162803 162806 162809
162810.

No. of patents sealed monthwise from
1st January, 1988 to 30th December 1988.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
Indian	54	56	67	45	100	108	87	76	100	29	65	90	877
Foreign	185	118	133	138	224	280	329	234	338	118	202	266	2565
Total	239	174	200	183	324	388	416	310	438	147	267	356	3442

RENEWAL FEES PAID

142474	142537	142877	143418	144344	144389	144609
145028	145115	145122	145137	145168	145244	145311
145446	145670	145982	146204	146408	146563	146794
146900	147192	147429	147572	147578	147795	148101
148182	148224	148980	149260	149625	149809	149811
149827	149902	150105	150307	150616	150744	150864
151110	151113	151609	151747	152193	152202	152278
152280	152341	152556	152754	152922	153043	153092
153342	153695	153896	154034	154138	154140	154141
154355	154540	154645	155232	155343	155504	155652
155653	155662	155733	155849	155966	156005	156042
156098	156143	156147	156415	156875	157217	157342
157366	157456	157497	157511	157631	157662	157855
157904	157924	158149	158192	158267	158604	158947
159151	159172	159208	159236	159485	159483	159507
159530	160057	160151	160370	160690	160712	160962
160981	161250	161304	161404	161464	161476	161475
161558	161601	161622	161631	161694	161697	161714
161730	161749	161771	161778	161796	161836	161839
161865	161899	161902	161912	161913	161928	161929
161930	161982	161988	161993	161995	161990	162000
162009	162024	162029	162030	162078	160079	160102
162120	162122	162143	162155	162159	162200	162218
162219	162268	162341	162373	162374	162382	162386
162387	162388	162586.				

CESSATION OF PATENTS

145408	145410	145411	145412	145413	145414	145415
145416	145418	145419	145421	145422	145424	145428
145429	145430	145431	145434	145435	145436	145437
145438	145439	145442	145444	145447	145448	145449
145450	145451	145452	145454	145456	145457	145458
145459	145462	145464	145467	145469	145470	145472
145475	145479	145480	145481	145483	145485	145486
145487	145488	145489	145493	145496	145497	145499
145500	145502	145503	145507	145508	145509	145510
145511	145512	145513	145515	145518	145519	145520
145521	145525	145528	145530	145531	145532	145533
145537	145541	145542	145543	145544	145546	145547
145548	145549	145551	145552	145554	145560	145562
145567	145571	145572	145573	145574	145581	145583
145591	145592	145593	145597	145598	145601	145603
145604	145605	145606	145607	145609.		

RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 158097 granted to Scripto-Toki, Inc. for an invention relating to "method of making an initially erasable but subsequently permanent ink for ball point writing instruments".

The patent ceased on the 2-3-1988 due to non-payment of renewal fees within the prescribed time and the cessation of

the patent was notified in the Gazette of India, Part III, Section 2 dated the 3-12-1988.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 4th April 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(2)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 159678 granted to Dennison Manufacturing Company for an invention relating to "apparatus for controlling duplication of data stored on flexible diskettes".

The patent ceased on the 22-6-1988 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 3-12-1988.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 4th April 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(3)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 154366 granted to Kirloskar Brothers Limited for an invention relating to "a single piece base plate with integrally formed bearing housing for flip pump set".

The patent ceased on the 28-7-1987 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 17-9-1988.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 4th April 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(4)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 157851 granted to Angelo Bros. Limited for an invention relating to "process for preparing 9, 10, 16-trihydroxy-palmitic acid".

The patent ceased on the 3-12-1987 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 3-12-1988.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 4th April 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(5)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 158253 granted to Unisystems Private Limited for an invention relating to "a packing box or case".

The patent ceased on the 28th March, 1988 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 3-12-1988.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 4th April 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(6)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 144779 granted to Kirloskar Brothers Limited for an invention relating to "a method of manufacturing vertically splittable pump casing for pump using disc type impeller and vertically splittable casing manufactured by said method".

The patent ceased on the 22nd July, 1987 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 17-9-1988.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 4th April 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

- Class 1. No. 159842. Geep Industrial Syndicate Limited, of 28, South Road, Allahabad, U.P. India, an Indian Company. "a Dry Cell Battery with Top Seal Washer". 17th June, 1988.
- Class 1. No. 159844. Messrs Sterling Switchgears Controls Private Ltd., 305, T. V. Industrial Estate, Worli Road, Bombay-400 018. "Flameproof Switchgears". 20th June, 1988.
- Class 1. No. 159854. Dripless Faucets (India) B-170-Okhla Industrial Area, Phase-I, New Delhi-110020, India, An Indian Company. "Faucet". 20th June, 1988.
- Class 1. Nos. 159986 & 159988. Rikhab Enterprises, of 14 Ekambareswara Aghaharam, 1st Floor, Madras 600003, Tamil Nadu, India, a registered Partnership firm. "a Bowl". 27th July, 1988.

- Class 1. Nos. 160014 & 160015. The Parkar Group Inc. "a Company organized under the laws of the Commonwealth Massachusetts, United States of America, of 10 Beartoot Road, Northboro, Massachusetts 01532, United States of America. "a Stapler". 4th August, 1988.
- Class 1. No. 160026. Deluxe Industries, 9561, Azad Market, Library Road, Delhi-110006. India, an Indian Partnership Concern. "Poori Press". 12th August, 1988.
- Class 1. No. 160028. Freezland Refrigeration Corporation, 17-Ashok Nagar, Ludhiana-141001. India. An Indian Partnership firm. "Gas Filter and Drier". 12th August, 1988.
- Class 1. No. 160080. Geep Industrial Syndicate Limited, of 28, South Road, Allahabad, U. P., India, an Indian Company. "a Torch". 30th August, 1988.
- Class 3. No. 159916. Chemical Centre, 3842/4, Chowk Tel Mandi, New Delhi-110055. An Indian Proprietary concern. "Bottle". 5th July, 1988.
- Class 3. No. 159917. Tele Holders International Pty. Ltd., a company incorporated under the laws of the State of New South Wales, of 39 Bombala Street, Cooma, New South Wales, 2630, Australia. a "Telephone Holder". 5th July, 1988.
- Class 3. Nos. 159958 to 159960. Orson Electronics Limited, a Company incorporated under the Companies Act, having its registered office at 209/210 Arcadia, Nariman Point, Bombay 400 021, in the State of Maharashtra within the Union of India. "Television Set". 18th July, 1988.
- Class 3. No. 159969. Kabushiki Kaisha Toshiba (TOSHIBA CORPORATION) a Corporation duly organised under the laws of Japan, of 72 Horikawa-cho, Saiwai-ku, Kawasaki-shi, Japan "Television Receiver". 19th July, 1988.
- Class 3. No. 159985. Khaitan (India) Limited, an Indian Company of 46C, J. L. Nehru Road, Calcutta-700 071, West Bengal, India. "Stand for Electric Fan". 27th July, 1988.
- Class 3. Nos. 159987 & 159989. Rikhab Enterprises, of 14 Ekambareswarar Aghaharam, 1st Floor, Madras 600003, Tamil Nadu, India, a registered Partnership firm. "a Bowl". 27th July, 1988.
- Class 3. No. 160016. Jagatjit Industries Limited, 5th Floor, Bhandari House, 91-Nehru Place, New Delhi-110019, India. An Indian Company. "Jar". 4th August, 1988.
- Class 3. 160021. H. V. Industrial Electronics Private Limited, a Company incorporated under the Indian Companies Act, 1956, of 223, Vyapar Bhavar Bhavan, 49, P.D. Mello Road, Near Carnac Bridge, Bombay-400 009; State of Maharashtra, India. "SWITCH". 8th August, 1988.
- Class 3. No. 160037. R. K. Enterprises, of 27-10-14, Atta Rottah Street, Governorpet, Vijayawada 520002, Andhra Pradesh, India, a partnership firm. "a Container". 18th August, 1988.
- Class 3. No. 160040. Premier Trading Corporation, 6122, Bahadur Garh Road, Bara Hindu Rao, Delhi-110006, India, a registered Partnership firm under the Indian Partnership Act, 1932. "Vegetable Slicers". 18th August, 1988.
- Class 3. No. 160043. Parikh Priest, Shrine Basilica of Our Lady of Health, Vailankanni-611111, Thanjavur District, Tamil Nadu, India, of Indian nationality. "a Container". 19th August, 1988.
- Class 3. Nos. 160050 & 160058. Jetking Electronics Ltd. of 3830, Pataudi House, Daryaganj, New Delhi, India, an Indian Company. "a Radio". 26th August, 1988.

Class 3. No. 160176. Roshan Lal Virmani trading as Rishikesh Chemical Works of 16/1, M. B. Ghat Street, Calcutta-700 006, State of West Bengal, India, an Indian national. "Container". 21st September, 1988.

Class 4. Nos. 160118 to 160120. JG Glass Limited, an Indian Company of Pimpri, Pune-411018, Maharashtra, India. 16th September, 1988.

Class 5. No. 159966. National Dairy Development Board, a Society duly registered under the Societies Registration Act, 1860 (Act XXI of 1860), and under the Bombay Public Trusts Act, 1950 (Bombay XXIX of 1950), under Kaira F 103, City of Anand 388 001, State of Gujarat, India. "Container". 19th July, 1988.

Class 8. Nos. 160202 to 160204. Amar Carpets, Auria-221301, Distt. Varanasi, U. P. State, India. "Carpet". 30th September, 1988.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of Patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The Written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of such specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

CLASS : 32-C.

164211

Int. Cl. : C 07 c 1/00 to 1/135.

IMPROVED PROCESS FOR MAKING SUBSTITUTED CARBOXYLIC ACIDS AND DERIVATIVES THEREOF.

Applicant : THE LUBRIZOL CORPORATION, 29400 LAKEFORD BLVD. WICKLIFFE, OHIO 44092, U.S.A.

Inventor : I. WILLIAM MONROE LESUER.

Application No. 50-Cal/85 filed January 28, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A method for preparing substituted carboxylic acids or derivatives thereof which comprises reacting :

(A) at least one aliphatic polymer of a lower olefin with;

(B) at least one acidic reactant selected from the group consisting of fumaric acid; itaconic acid; maleic acid; and the anhydrides, lower alkyl esters, acyl chlorides and acyl bromides of any of these acids;

at least a part of reaction taking place in the presence of chlorine, the improvement comprising the steps of :

(i) reacting at a temperature of about 100°—200°C, a mixture of (A) and (B) in the presence of about 0.05 to 0.15 equivalent of (A) until all of the chlorine has reacted to provide a first intermediate product;

(ii) continuing the reaction in the absence of chlorine at a temperature of from about 180°—250° C until a conversion of 0.4 to 1.1 equivalents of (B) per equivalent of (A) is attained to provide a second intermediate product; and

(iii) reacting said second intermediate with about 0.2 to 1.5 equivalents of chlorine per equivalent of (A) used in step (i) at a temperature of about 180°—225°C

Compl. specn. 24 pages.

Drg. Nil

164212

Int. Cl. : C 07 d 213/127.

PROCESS FOR THE PRODUCTION OF PYRIDINES.

Applicant : IEL LIMITED, FORMERLY KNOWN AS INDIAN EXPLOSIVES LIMITED, OF ICI HOUSE 34 CHOWRINGHEE ROAD, CALCUTTA-700071, WEST BENGAL, INDIA.

Inventors : 1. POTARAJU RAJARAM, 2. MILIND VISHNU JOSHI.

Application No. 218/Cal/85 filed March 25, 1985.

Complete Specn. left on 24th June, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A process for the production of pyridines and pyridine bases such as herein described which comprises reacting in the vapour phase ammonia and ethanol in a mole ratio of from 0.5 to 2.5 in the presence of a heteropolyacid catalyst of the kind described herein at a temperature in the range of from 350°C to 500°C and recovering in any known manner the pyridines thus produced.

Provisional Specn. 7 pages.

Drgs 1 sheet

Compl. specn 10 pages.

Drg. Nil

164213

Int. Cl. : C 07 c 121, 18.

PROCESS FOR THE PRODUCTION OF ACETONITRILE.

Applicant : IEL LIMITED, FORMERLY KNOWN AS INDIAN EXPLOSIVES LIMITED, OF ICI HOUSE, 34 CHOWRINGHEE ROAD, CALCUTTA-700016, WEST BENGAL, INDIA.

Inventors : 1. POTARAJU RAJARAM, 2. MILIND VISHNU JOSHI.

Application No. 21/Cal/85 filed March 25, 1985.

Complete Specn. left on 24th June, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

A process for the production of acetonitrile which comprises reacting in the vapour phase ethanol and ammonia in a molar ratio of from 1 : 3 to 1 : 6 in the presence of 12-molybdo-phosphoric acid as catalyst at a temperature of from 300°C to 500°C and recovering the acetonitrile produced.

Provisional Specn. 6 pages.

Drg. Nil

Compl. specn. 8 pages.

Drg. Nil

CLASS : 98-I.

164214

Int. Cl. : F 24 j 3/00.

APPARATUS FOR CONVERTING THERMAL RADIATION INTO MECHANICAL WORK SUCH AS A SOLAR POWER PUMP ASSEMBLY.

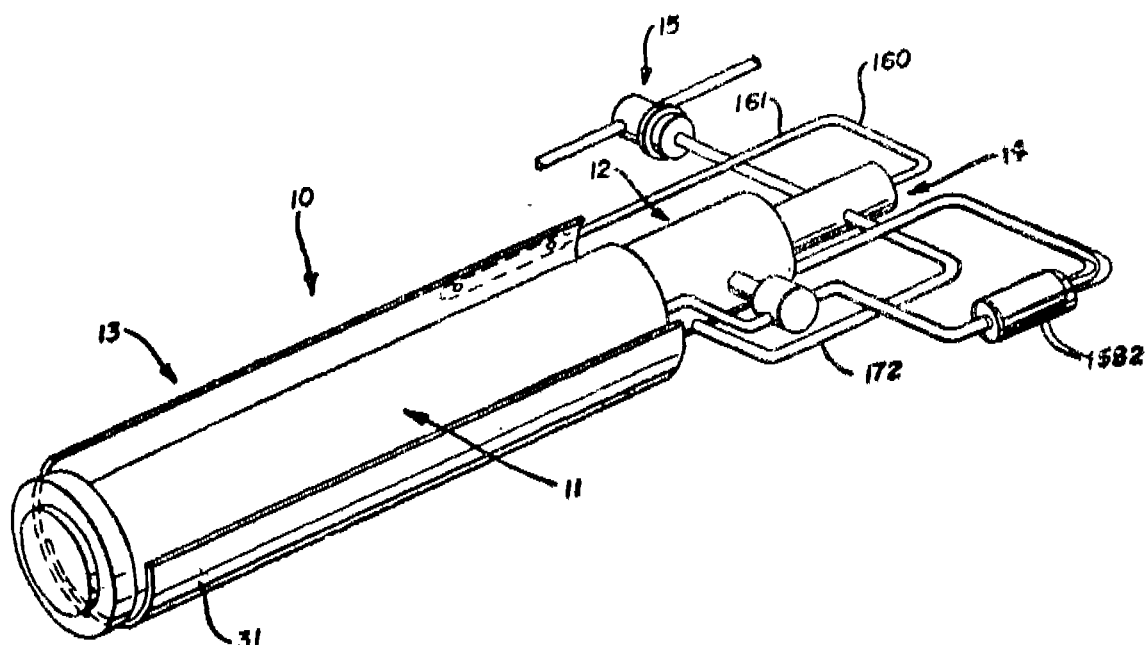
Applicant & Inventor : FRED D. SOLOMON, OF 979 NEADOW PARK DRIVE, AKRON, OHIO 44313, U. S. A.

Application No. 409/Ca/85 filed May 30, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

18 Claims

Apparatus for converting thermal radiation into mechanical work comprising collector means to receive and concentrate the thermal radiation to generate pressure by vaporizing a working fluid; expansible chamber means selectively in fluid communication with said collector means and having at least one movable wall; movable piston means operatively associated with said movable wall; connecting rod means having one end secured to said piston means, the outer end being suitable for interrelation with a mechanical load; exhaust chamber means having a pressure substantially less than the work pressure of said collector means; compressor means to receive working fluid from said exhaust chamber means and to supply working fluid to said collector means; and valve means incorporated in said connecting rod means to effect fluid communication of said expansible chamber means alternately with said collector means and said exhaust chamber means.



Compl. specn. 31 pages.

Drgs. 6 sheets

CLASS : 10-E.

164215

Int. Cl. : F 41 f 7/00.

A TRACER AMMUNITION ROUND HAVING A PROPELLANT CHARGE.

Applicant : LSI TECHNOLOGIES, INC., OF 212 HADDON AVENUE, WESTMONT, NEW JERSEY 08108, U. S. A.

Inventors : 1. THOMAS EMILIO DEPHILLIPO 2. JAMES FRANCIS KOWALICK.

Application No. 522 Ca/85 filed July 15, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims

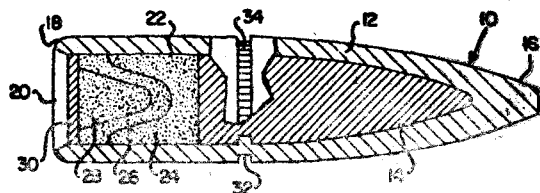
A tracer ammunition round having a propellant charge comprising :

a hollow jacket having a generally pointed front end and a generally blunt rear end, the jacket defining a shaped interior cavity;

a shaped slug inserted into the jacket cavity,

characterised in that the slug comprises a metallic body, said metallic body comprising a forward end, a rearward end and an elongated hole or central opening forming a column extending longitudinally through the body from the forward end to the rearward end, the rearward end being exposed to the propellant charge,

the ratio of the length of the central opening column to diameter of the central opening column being at least five; and a pyrotechnic composition such as herein described defining an elongated, small diameter, as e.g. 0.030 inch to 0.055 inch, pyrotechnic column within the central opening, and completely filling the central opening, said pyrotechnic composition comprising a fuel, an oxidizer and a binder, each such as herein described the pyrotechnic composition being capable of being ignited by the propellant charge to provide a visible trace of the trajectory of the round upon firing.



Compl. specn. 18 pages.

Drg. 1 sheet

CLASS : 104-N.

164216

Int. Cl. : E 04 c 2/00.

A METHOD FOR MAKING NOVEL BOARDS FROM NON-ASBESTOS REINFORCING MATERIALS.

Applicant : VANAGALA PATTABHI OF 9/1, R. N. MUKHERJEE ROAD, CALCUTTA 700001, WEST BENGAL, INDIA.

Inventor : 1. ISHWAR DAYAL VARMA.

Application No. 529/Cal/85 filed July 17, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A method to manufacture fibre reinforced boards from cement or calcium silicate and reinforcing fibres characterized in that (A) first a water slurry is prepared comprising (i) reinforcing cellulosic fibres selected from natural plant fibres for example Kemp, Kenaf, coniferous wood fibres or similar natural fibres of the plant kingdom individually or in combination and (ii) binder selected from cement lime, silica with or without conventional additives by thorough mixing of components (ii) and (iii) in a conventional mixer preferably hydropulper and thereafter (B) subjecting said slurry of step A to Sheet formation by forming a layer of film on a rotating sieve cylinder (C) the said film being then transferred to an endless felt, followed by (D) subjecting the said film to vacuum treatment followed by (E) depositing of said film obtained from step D on an accumulator roll and thereafter F the film so deposited on an accumulator roll being separated as board after a pre-determined thickness is obtained, whereafter (G) the board so separated is allowed to develop initial strength in a conventional manner to retain its shape and (H) finally subjected to curing in a conventional manner.

Compl. specn. 9 pages.

Drg. Nil

164217

Int. Cl. : C 01 b 3/00, 21/00. |

PROCESS FOR THE PRODUCTION OF GASEOUS FEED FOR THE SYNTHESIS OF AMMONIA.

Applicant : FOSTER WHEELER ENERGY CORPORATION, AT 110 SOUTH CRANES AVENUE, NEW JERSEY, 07039, U.S.A.

Inventors : 1. GEOFFREY FREDERICK SKINNER, 2. WIESLAW MAREK KOWAL, 3. STEPHEN D. LINTON.

Application No. 586/Cal/85 filed August 12, 1985.

Convention dated 14th August, 1984 (8420644) U. K.

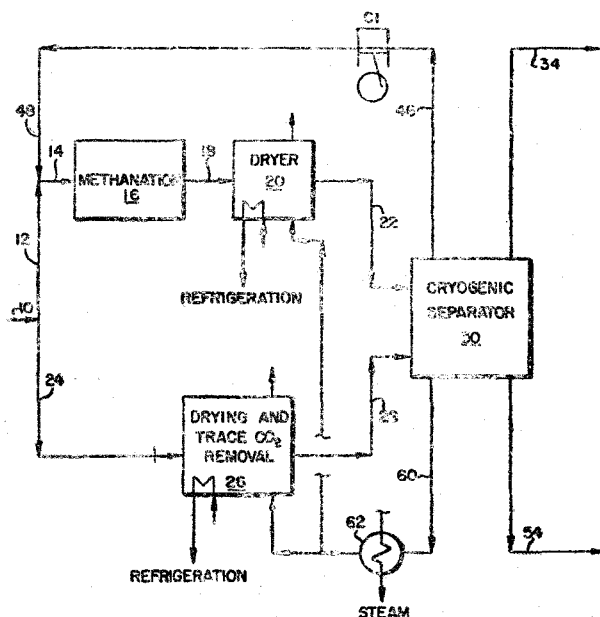
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

A Process for the production of gaseous feed for the synthesis of ammonia from a raw synthesis gas stream comprising

prising hydrogen, nitrogen and carbon monoxide having a molar ratio of less than 3 : 1, said process comprising :

- subjecting a first portion comprising less than 50% of said raw synthesis gas stream to conventional methanation to convert carbon monoxide contained therein to methane;
- cooling and partially condensing the product of step (a);
- cooling and partially condensing a second portion of said raw synthesis gas stream;
- washing uncondensed product from step (c) with condensate from step (b); and
- recovering washed gas from step (d) and uncondensed gas from step (b) for use as said gaseous feed for ammonia synthesis.



Compl. specn. 20 pages.

Drgs. 3 sheets

CLASS : 39-N.

164218

Int. Cl. : C 01 d 7/00.

PROCESS FOR PRODUCING GRANULAR SODIUM PERCARBONATE.

Applicant : GOSUDARSTVENNY NAUCHNO-ISSLEDOVATELSKY INSTITUT KHIMI I TEKHNOLOGII BELEMENTOORGANICHESKIKH SOEDINENIY, OF SHOSSE ENTUZIASTOV, 38, MOSCOW USSR.

Inventors : 1. VLADIMIR PETROVICH PAVLOV, 2. VIKTOR MINEEVICH ROMANOV, 3. LEONID SERGEEVICH SHEVNITSYN, 4. VIKTOR ALEXANDROVICH GRADOV, 5. VALERY VALERIEVICH SMIRNOV, 6. IVAN SIDOROVICH LUKONIN, 7. VLADLEN VASILIEVICH BURDIN, 8. VYACHESLAV ARTEMIEVICH BUDKOV, 9. VLADIMIR DMITRIEVICH PAROKONNY, 10. NINA VLADIMIROV NA VALAINIS.

Application No. 746/Cal/85 filed October 17, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim

A process for producing granular stabilized sodium percarbonate comprising reacting aqueous solutions of hydrogen peroxide and soda ash in the presence of stabilizers, feeding said reaction solutions to sodium percarbonate seed grains, followed by drying in a sodium percarbonate fluidized bed at a temperature of from 35 to 95°C and isolating the end product, characterized in that said sodium percarbonate seed grains have size of 1 to 5 mm and an average size of 1.1 to 5.0 times that of the end product at a mass

ration of the aforesaid size seed grains to those of the end product being equal to 1:1—8 : 1, respectively.
Compl. specn. 12 pages. Drg. Nil

CLASS : 39-N.

164219

Int. Cl. : C 01 d 11/00.

PROCESS FOR PRODUCING GRANULAR SODIUM PERCARBONATE.

Applicant : GOSUDARSTVENNY NAUCHO-ISSEDOVATELSKY INSTITUT KHIMI I TEKHOLOGII ELEMENTOORGANICHESKIKH SOEDINENY, OF SHOSSE-ENTUZIASTOV, 38, MOSCOW, USSR.

Inventors : 1. EVGENY ANDREEVICH CHERNYSHEV, 2. VLADIMIR PETROVICH PAVLOV, 3. JURY LAVRENTIEVICH MARTYNUK, 4. VALERY EVGENIEVICH TRUBKIN, 5. VLADLEN VASILIEVICH BURDIN, 6. EVGENY MIKHAILOVICH EMELIANOV, 7. LJUDMILA ILINICHNA OVCHINNIKOVA, 8. ZOYA PETROVNA VCLKOVA, 9. VALENTINA BORISOVNA KOLEVATOVA, 10. VYACHESLAV ARTEMIEVICH BUDKOV, 11. ILYA ANATOLIEVICH ABRAMOV, 12. PAVEL BFIMOVICH ZOTIN, 13. VIKTOR ALEXANDROVICH CRADOV, 15. LEONID SERGEEVICH SHEVNITSYN, 16. VALERY VALERIEVICH SMIRNOV, 17. TATYANA MIKHAILOVNA IZMAILOVA, 18. VIKTOR GRIGORIEVICH BRAITSEV, 19. IVAN SIDOROVICH LUKONIN.

Application No. 842/Cal/85 filed November 26, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim

A process for producing granular stabilized sodium percarbonate used as a component of synthetic detergents comprising a reaction between aqueous solutions of hydrogen peroxide and soda ash in the presence of stabilizers such as sodium hexametaphosphate and sodium silicate and feeding said reaction solutions onto seed grains of sodium percarbonate followed by drying in a fluidized layer of sodium percarbonate at a temperature of from 35° to 95°C which process is characterized in that the feeding of the mixture of aqueous solutions hydrogen peroxide and soda ash is carried out simultaneously with the feeding of aqueous sodium percarbonate suspension in which the stabilizers have been pre-liminarily introduced, the mass ratio of the suspension to the mixture of said aqueous reaction solutions being solutions being (0.25-4) : 1.

Compl. specn. 16 pages.

Drg. Nil

Int. Cl. : C 07 c143/82.

164220

AN IMPROVED SINGLE-VESSEL PROCESS FOR PREPARING 2-ACETAMINONAPHALENE-6-SULFONIC ACID OF HIGH PURITY,

Applicant : HOECHST AKTIENGESSELLSCHAFT, D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. OTTO ARNDT, 2. THEODOR PAPENFUHS.

Application No. 488/Cal/86 filed June 30, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim

In a single-vessel process for preparing 2-acetaminonaphthalene-6-sulfonic acid of high purity by sulfonating 2-hydroxynaphthalene with concentrated sulfuric acid, converting the 2-hydroxynaphthalene sulfonic acid formed with ammonia in the presence of ammonium hydrogensulfite into 2-aminonaphthalene-6-sulfonic acid (Bucherer reaction) and N-acetylating the latter to give 2-acetaminonaphthalene-6-sulfonic acid, the improvement which comprises, after diluting the sulfonating melt with water, substantially removing any impurities still present in the resulting aqueous solution of 2-hydroxynaphthalene-6-sulfonic acid, in particular 2-hydroxynaphthalene, by extraction with toluene or xylene and/or clarification using active carbon.

Compl. Spen. 24 sheets

Drg. Nil

164221

Int. Cl. : G 08 B 17/00.

FIRE ALARM ACTUATING DEVICE.

Applicant & Inventor : JAGADISH PRAKASH MATHUR, INDIAN NATIONAL OF 18 STANLEY ROAD, ALLAHABAD, UTTAR PRADESH, INDIA.

Application for Patent No. 1082/Del/85 filed on 18th December, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

A fire alarm actuating device comprising a housing in which the alarm is housed two blocks of insulating material fixed at the bottom of the housing spaced from each other a pair of terminal plate connected to auxiliary circuit of the fire alarm two terminals disposed in slots in said blocks, each terminal resting on one of said terminal plates with its upper end in contact with the conducting film on the said strip each terminal being a flat semi-circular piece of an electrically conducting material, the said auxiliary circuit being energised through the terminal plates, in the event of fire breaking out the strip connecting the auxiliary circuit is broken and closed electric circuit of the fire alarm is energised enabling the fire alarms to sound.

Compl. specn. 9 pages.

Drg. 1 sheet

Int. Cl.⁴ : A 61 B 5/02, 5/08.

164222

A PEAK FLOW MONITOR FOR MEASURING THE RATE OF EXHALED AIR FROM THE LUNGS.

Applicant & Inventor : VIVEK MULL., CHANDRA AGRO PVT. LTD., MULL BUILDINGS, ASHOK MARG, LUCKNOW, (U.P.), INDIA, AN INDIAN NATIONAL.

Appropriate for Patent No. 27/Del/86 filed on 10th January, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A peak flow monitor for measuring the rate at which a patient is able to exhale air from the lungs, comprising a tubular member having a mouth end and a whistle casing having a reed or whistle, secured to the opposite end of the tubular member, which will vibrate when the exhaled air passes through the same at a predetermined rate, said tubular member having a plurality of spaced openings each of a predetermined area provided on the same between the mouth end and the whistle casing end, for the escapes of exhaled air through one or more said openings, any one of which if the said opening being adapted to be closed as and when desired as herein described.

Compl. specn. 7 pages.

Drg. 1 sheet

Int. Cl.⁴ : A 01 D 45/16.

164223

AN IMPROVED VEGETATION CLIP.

Applicant & Inventor : FREDRICK TILDEN FDRIDGE, A CITIZEN OF ZIMBABWE, OF MNANDU FARM, WEDZA, ZIMBABWE.

Application for Patent No. 35/Del/86 filed on 14th January, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

An improved vegetation clip for use in reaping and curing of tobacco comprising a semi-rigid elongate frame composed of a first member and a second member spaced apart from and substantially parallel to the first member, said members being joined together at or near their respective ends to form notches; at least one elastically tensioned deformable tie member interposed in substantially parallel orientation between the members; and means provided at the ends of each member to interlink two or more clips end to end to form a chain of clips.

Compl. specn. 10 pages.

Drg. 1 sheet

Int. Cl.⁴ : G 02 B 27/00.

164224

A DOOR VIEWER.

Applicant & Inventor : RAVI GANDHI, OF J/79, VIKAS PURI, NEW DELHI-110018, INDIA, AN INDIAN NATIONAL.

Application for Patent No. 43/Del/86 filed on 15th January, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

9 Claims

A door viewer comprising a convex lens being the eye-piece lens followed by pair of plano concave lenses and a plano convex lens, in that order, said plano convex lens having a central cavity the central axis of the said cavity coincident with those of the pair of plano concave lenses and said convex lens.

Compl. specn. 7 pages.

Drg. 1 sheet

Int. Cl.⁴ : A 61 M 1/02, 5/00.

164225

A BLOOD TRANSFUSION MEANS.

Applicant & Inventor : VIVEK MULL C.O CHANDRA AGRO PVT. LTD., MULL BUILDING, ASHOK MARG, LUCKNOW, UTTAR PRADESH, INDIA, AN INDIAN NATIONAL.

Application for Patent No. 48/Del/86 filed on 17th January, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A blood transfusion means comprising a first and second elongate chamber in flow communication with each other, said first elongate chamber having an inlet connected to a proximal tube for connection to a blood bottle, said second elongate chamber having an outlet connected to a distal tube for discharge of blood, a filter disposed within said first elongate chamber and a valve provided with said outlet, said valve being adapted to close the outlet due to gravity in the absence of blood in the said means.

Compl. specn. 7 pages.

Drg. 1 sheet

Int. CLASS⁴ : C01B 3/02

164226

21 Claims

PROCESS FOR PRODUCING A HYDROGEN-RICH GAS STREAM.

Applicant : UOP INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE IN THE UNITED STATES OF AMERICA, WITH ITS PRINCIPAL PLACE OF BUSINESS LOCATED AT TEN UOP PLAZA, ALGONQUIN & MT. PROSPECT ROADS, DES PLAINES, ILLINOIS-60016, U.S.A.

Inventors : ARTHUR RAYMOND GREENWOOD AND RAYMOND MASLIN.

Application for Patent No. 074/Del/86 filed on 27th January, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

A process for producing a hydrogen-rich gas stream by treating a hydrogen and hydrocarbon effluent from a catalytic hydrocarbon conversion reaction zone comprising the steps of :

- (a) passing at least a portion of said effluent to a first vapor-liquid equilibrium separation zone and recovering therefrom a hydrogen-containing vapor phase and a first liquid phase comprising substantially hydrocarbons;
- (b) subjecting at least a first portion of the hydrogen-containing vapor phase to indirect heat exchange with a hereinafter defined hydrogen-rich gas stream;
- (c) subjecting only a portion of the first liquid phase, comprising about 10 to 20 vol. % of the total first liquid phase, to indirect heat exchange with a herein after defined second liquid phase;
- (d) admixing the heat exchanged first portion of the hydrogen containing vapor phase and the heat exchanged portion of the first liquid phase and subjecting the resulting admixture to refrigeration;
- (e) passing the refrigerated admixture to a second vapor-liquid equilibrium separation zone to produce a hydrogen-rich gas stream and a second liquid phase;
- (f) subjecting the hydrogen-rich gas stream to indirect heat exchange with the first portion of the hydrogen-containing vapor phase pursuant to step (b) above and subjecting the second liquid phase to indirect heat exchange with the portion of the first liquid phase pursuant to step (c) above; and,
- (g) recovering the heat exchanged hydrogen-rich gas stream.

Compl. specn. 26 pages

Drg. 1 sheet

164227

Int. Cl.⁴ : F 24 J 3/02.**SOLAR CELL ARRAY AND METHOD OF MANUFACTURING THE ARRAY.**

Applicant : TEXAS INSTRUMENTS INCORPORATED, A CORPORATION OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, 13500 NORTH CENTRAL EXPRESSWAY, DALLAS, TEXAS 75265, UNITED STATES OF AMERICA.

Inventors : JULES DAVID LEVINE, MILLARD JEAN JENSEN AND RONALD EVANS HANEY.

Application for Patent No. 115/Del/85 filed on 10th February, 86.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

A solar cell array comprising :

- (a) a first aluminum foil layer having a plurality of spaced apertures therein;
- (b) a plurality of spheroid shaped semiconductor particles, each having a P-type and an N-type region, the N-type region being bonded to said first aluminum foil in said spaced apertures; and
- (c) a contact member consisting of a second aluminum foil insulated from said first aluminum foil and coupled to the P-type region of said semiconductor particles.

Compl. specn. 19 pages.

Drgs. 3 sheets

164228

Int. Cl.⁴ : A 44 C 5/02.**A JEWELRY ROPE CHAIN.**

Applicant : OROAMERICA, INC., A CALIFORNIA CORPORATION OF 443 NORTH VARNEY STREET, BURBANK, CALIFORNIA 91502, UNITED STATES OF AMERICA.

Inventors : GUY SIMON, BENHAMOU AND GIANFRANCO ANTONIO PROIA.

Application for Patent No. 138/Del/86 filed on 20th February, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

10 Claims

A jewelry rope chain comprising tightly interfitting annular chain links of wire of a given major diameter, each annular link having a small gap formed therein which, for the passage of a further annular chain link is said given major diameter of the wire, the gap of one chain link being provided at the respective closed region of the next chain link and a group of interfitting chain links being enveloped by a first chain link to a next group, characterized in that the ratio of the inner annulus diameter (Di) of each annular chain link (Ei, Fi) to the major diameter of the wire (Dw) is slightly greater than an odd numbered multiplied equal to or greater than five and the number of chain links of each group corresponds to the integral ratio of said odd number of the inner annulus diameter (Di), each of said annular links having an inner annulus diameter at least five times greater than the major diameter of the said wire forming each of said annular links.

Compl. specn. 22 pages.

Drgs. 5 sheets

164229

Int. Cl.⁴ : D 03 D 37/00**METHOD OF PRODUCING A TUBULAR WOVEN FABRIC AND CIRCULAR LOOM FOR CARRYING OUT THE METHOD.**

Applicant : LENZING AKTIENGESellschaft, AN AUSTRIAN COMPANY, OF A-4860 LENZING, AUSTRIA.

Inventors : JOHANN BUCHINGER, BRUNO MISTLBERGER, RUDOLF WOLF, JOHANN SCHONBERGER, THOMAS LANGER, JOHANN BLOO, KURT VILSECKER, AND BRUNO HAIDER.

Application for Patent No. 155/Del/86 filed on 24th February, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

9 Claims

A method of producing a tubular woven fabric of variable weave patterns, said method being performed by using a circular loom including shedding means comprising thread guiding organs consisting of a plurality of threads eyes carried by a plurality of flexible bands, said threads eyes corresponding in number with the number of warp threads and capable of carrying said corresponding warp threads, said flexible bands being spaced side by side across the width of the warp to form therebetween free spaces, which method is characterised by :

- guiding selected ones of said warp threads through their corresponding thread eyes and operating said thread guiding organs to raise and lower said warp threads so as to form sheds;
- guiding others of said warp threads through the free spaces of said thread guiding organs adjacent their corresponding thread eyes, said others of said warp threads comprising loose warp threads, said loose warp threads crossing an opened shed approximately centrally thereof;
- moving at least two shuttles through said sheds;
- utilising deflection guide means mounted on at least one of said shuttles to lift said loose warp threads; and
- utilising additional guide means mounted on at least an additional one of said shuttles to thereafter lower said loose warp threads

Compl. specn. 15 pages.

Drgs. 3 sheets

164230

Int. Cl. : B 61 H 13/00, B 60 T 13/00.

AN ACTUATING DEVICE FOR A VEHICLE BRAKE RIGGING.

Applicant : SAB NIFE AB, A SWEDISH COMPANY, OF BOX 515, S-261 24 LANDSKRONA, SWEDEN.

Inventor : MICHEL ROGER.

Application for Patent No. 192/Del/86 filed on 4th March, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

An actuating device for a vehicle brake rigging, comprising a service brake and a spring parking brake, characterised in that said device comprises, a service brake cylinder (1) and piston (2), a parking brake cylinder (15, 17) and piston (12), a ratchet wheel (8) located between the piston;

non-permanent connection means (6, 7) provided between the ratchet wheel and the service brake piston; and further connection means (10, 12) provided between the ratchet wheel and the parking brake piston; the ratchet wheel being controllable in translation and in rotation-translation, depending on whether a chamber (B) of the parking brake cylinder is either emptied or fed.

Compl. specn. 6 pages.

Drg. 1 sheet

CLASS : 179G [XL(6)]

164231

Int. Cl. : B 67 b 1/04.

A STOPPER FOR BOTTLES OR CONTAINERS.

Applicants : SHREE KRISHNAKESHAV LABORATORIES LTD., AMRAIWADI ROAD AHMEDABAD-380 008, GUJARAT, INDIA.

Inventor : (1) ARAVIND MEHTA.

Application No. 279/Bom/85 filed October 10, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

6 Claims

A stopper for a bottle made of a thermoplastic material, for a liquid to be administered intravenously to patients, comprising :

a flange and a substantially cylindrical integral projection extending from the lower face of the flange;

the free end of the projection being shaped like the frustum of a cone tapering downwardly;

the larger diameter of the said frustum of cone shaped portion being larger than the outer diameter of the said projection;

the projection being formed with a recess extending from its lower face inwardly and two circular depressions being formed at the base of the recess for forming holes for the dropwise metering fitting of the drip tube; and

the air vent tube, the top face of the flange being formed with circular ring shaped projections co-axial to the said depressions for facilitating perforation of the flange for the insertion of the said fitting and air vent tube.

Compl. specn. 8 pages

Drg. 1 sheet

Ind. Cl. : 32 F2b, 55 E4.

164232

Int. Cl. : C 07 d -7/32, 7/34.

A PROCESS FOR THE PREPARATION OF NOVEL BIOLOGICALLY ACTIVE BENZO PYRAN-4-ONE DERIVATIVES.

Applicant : HOECHST INDIA LIMITED OF HOECHST HOUSE, NARIMAN POINT, 193 BACKBAY RECLAMATION BOMBAY-400 021, MAHARASHTRA, INDIA.

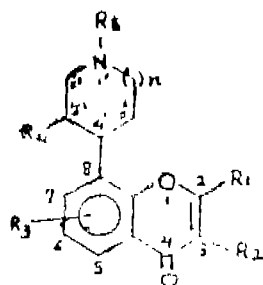
Inventors : SAMBA LAXMINARAYAN KATTIGE (2)
RAMCHANDRA GANPATI NAIK (3) AFTAB
DAWOODBHAI LAKDAWALA, (4) ALIHUSSEIN
NOMANBHAI DOHADWALLA, (5) NEOL JOHN
DE SOUZA (6) RICHARD HELMUT RUPP.

Application No. 300/BOM/1985 FILED ON OCTOBER,
31, 1985.

Complete after Provisional left on FEBRUARY 2, 1987.

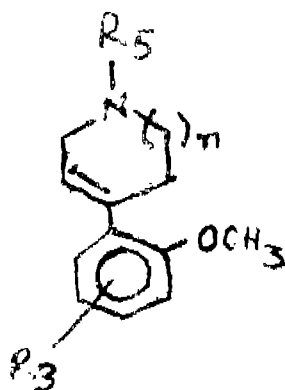
3 Claims

A Process for the preparation of novel biologically active
4H-1-benzopyran-4-one derivatives of the general formula I
shown in Fig.



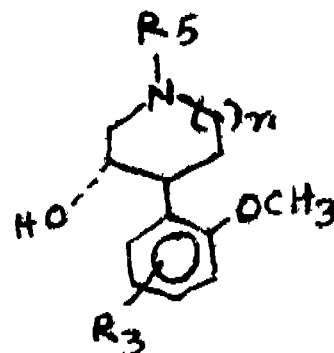
Formula I

wherein R_1 stands for hydrogen, alkyl of 1 to 4 carbon atoms, aralkyl, cycloalkyl, cycloalkyl alkyl, substituted alkyl, alkenyl, alkynyl, aryl, carboxyl, aldehyde or ester, R_2 stands for hydrogen or alkyl of 1 to 4 carbon atoms, R_3 stands for one or more substituents such as hydrogen, alkyl, substituted alkyl, hydroxy, alkoxy, aralkyl, nitro, amino substituted amino or halogen, n stands for 0, 1, 2, and R_5 stands for hydrogen, alkyl, substituted alkyl, aralkyl, cycloalkyl, cycloalkyl alkyl, acyl or aroyl, wherein the aryl is optionally substituted by one or more substituents such as herein described and Pharmacologically acceptable acid addition salts thereof, said process comprises
i. reacting a compound of the formula III shown in Fig. 7.



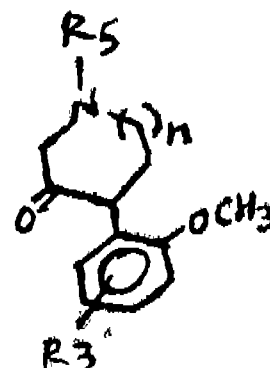
wherein R_3 , R_5 and n are as defined above, with diborane generated *in situ* by the addition of BF_3 -etherate to a slurry of sodium borohydride in an ethereal solvent such as diglyme or tetrahydrofuran under anhydrous conditions and under inert atmosphere such as nitrogen or argon atmosphere at 20° — $90^\circ C$, and treating the organoborane complex with hydrochloric acid followed by oxidation with hydrogen peroxide

in the presence of an alkali such as sodium hydroxide at 30° — $60^\circ C$ to obtain a trans-alcohol of the formula IV shown in Fig. 7.



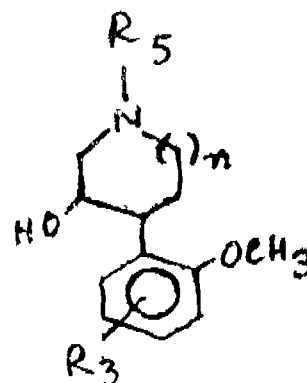
wherein R_3 , R_5 and n are as defined above;

ii. oxidising the trans-alcohol of the formula IV with a combination of reagents such as acid chloride such as thionyl-chloride or oxalylchloride, dimethylsulfoxide and triethylamine at 30° to $50^\circ C$ to obtain a compound of the formula V shown in Fig. 7



wherein R_3 , R_5 and n are as defined above;

iii. reacting the compound of the formula V with a hydride reagent such as sodium borohydride diborane or lithium borohydride in a solvent such as ethylalcohol or tetrahydrofuran at 27° — $80^\circ C$, isolating the resulting *cis*-alcohol of the formula VI shown in Fig. 7

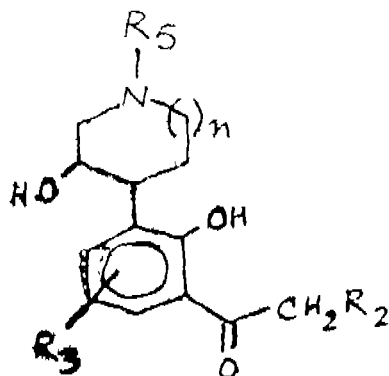


wherein R_3 , R_5 and n are as defined above from the reaction mixture stereoselectively in known manner, for instance, by fractional crystallisation, resolving the *cis*-alcohol of the formula VI into individual enantiomers by treating with an optically active acid such as (—)-and or (+)-dibenzoyl tartaric acid and further resolving the acid salts of the *cis*-alcohol of the formula VI in known manner such as fractional crystallisation;

iv. acylating and demethylating the resulting compound of the formula VI with an acyl anhydride such as acetic anhydride or propionic anhydride and borontrifluoro-etherate in excess at 0–30°C to obtain the *cis*-compound of the formula shown in Fig. 4

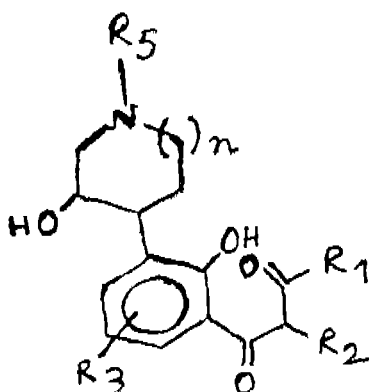
wherein R_2 , R_3 , R_5 and n are as defined above;

v. hydrolysing the *cis*-compound of the formula shown in Fig. 4 with an alkali such as sodium hydroxide to obtain a compound of the formula VII shown in Fig. 7.



wherein R_2 , R_3 , R_5 and n are as defined above;

vi. reacting the compound of formula VII with an ester such as herein described in the presence of a base such as sodium metal of hydride optionally in the presence of an inert solvent such as ether, dimethylformamide or hydrocarbon such as hexane at 30°–90°C to obtain a diketone of the formula VIII shown in Fig. 7



wherein R_1 , R_2 , R_3 , R_5 and n are as defined above;

vii. reacting the compound of the formula VIII with a mineral acid such as hydrochloric acid or sulfuric acid at ambient temperature to obtain the compound of formula I;

viii. and, if desired, O-demethylating a compound of the formula I wherein R_3 is OCH_3 at one or more places and R_1 , R_2 , R_5 and n are as defined above with a reagent such as herein described.

Provisional specification 29 pages; Drawing 4 Sheets.
Complete specification 46 pages; Drawing 2 Sheets.

CLASS : 70 B

164233

Int. Cl. : B 01 K—3/02, G 01 N—27/30.

AN ELECTRODE FOR USE IN ELECTROCHEMICAL PROCESS AND A METHOD OF PREPARING THE SAME.

Applicant : ORONIO DE NORA IMPIANTI ELETTRO-CHIMICI S.P.A. (AN ITALIAN CORPORATION) AT VIA BISTOIFI 35-20134 MILANO, ITALY.

Inventor : ANTONIO NIDOLA.

Application No. 318/BOM/85 filed on November 28, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

17 Claims

An electrode for use in electrochemical process, in particular for use as cathode in electrolytic cells for the electrolysis of alkali metal chlorides which comprises an electrically conductive metal supporting substrate and an external coating substantially constituted by a metal or metal alloy with particles of electrocatalytic materials dispersed therein characterized in that said external coating further contains elements of the groups IB, IIB, IIIA, IVA, VA, VB, VIA, VIB and VIII of the period Table.

Compl. specn. 22 pages

Drg. Nil

CLASS : 19B1 [LXIV(1)]

164234

Int. Cl. : F 16 b—39/00; 39/28; 39/36.

AN ADAPTOR FOR USE IN SECURING A STRAINER ASSEMBLY TO A HOLE IN A STRAINER PLATE IN A STAINER. FILTER.

Applicant : ION EXCHANGE (INDIA) LTD., TIECON HOUSE, DR. E MOSES ROAD, BOMBAY-400011, MAHARASHTRA, INDIA.

Inventors : (1) DR. VINOD CHINTAMANI MALSHE, (2) SUBHASH RAJARAM KORGONKAR & (3) KHUSHAL PREMCHAND MAHAJAN.

Application No. 342/Bom/1985 filed December 17, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

4 Claims

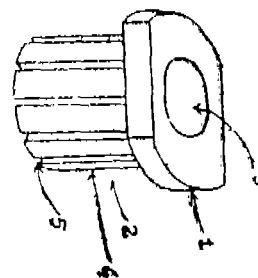
An adaptor for use in securing a strainer assembly to a hole in a strainer plate in a strainer comprising :

a collar portion and a tail portion descending from said collar portion having an internally threaded through hole whose diameter corresponds to the external diameter of the rod of a strainer assembly for purposes of engaging said rod;

said tail portion having a plurality of longitudinal slots formed as continuous slots through the entire thickness of the wall of the tail portion each slot being formed between a pair of adjacent downwardly descending walls;

said plurality of adjacent walls forming collectively the wall of the tail portion;

the external diameter of the tail portion corresponding to the diameter of the said hole in the strainer plate.



Compl. specn. 8 pages

Drg. 1 sheet

Int. Cl. : 80 D[VI]

164235

2 Claims

Int. Cl. : B 01 D—35/16.

A CONTINUOUS WATER FILTER COMPRISING AN ELONGATED COLUMN.

Applicant : ION EXCHANGE (INDIA) LIMITED, TIECON HOUSE, DR. E. MOSES ROAD, BOMBAY-400 011, MAHARASHTRA, INDIA.

Inventors : 1. DR. VINOLD CHINTAMANI MALSHI, 2. SUBHASH RAJARAM KORGONKAR, 3. KHUSHAL PREMSHANT MAHAJAN, 4. YASHWANT KESHAV RADE.

Application No. 343/Bom/85, filed on December 17, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

19 Claims

A continuous water filter comprising

an elongated column having water inlet for introducing uncleaned water and a water outlet for withdrawing cleaned water;

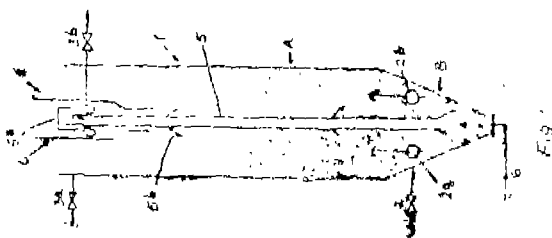
a portion of the column between the said inlet and outlet being provided with a filtration bed of sand;

said inlet being in flow communication with an inlet manifold for distributing uncleaned water to said sand filter;

said elongated column being also provided with an independent cleansing unit in flow communication with the said elongated column;

flow communicating means being provided between the said elongated column and the said cleansing unit for feeding contaminated sand withdrawn from the filter bed to said cleansing unit;

means being also provided in said cleansing unit for feeding cleansed sand back to the filter bed and for withdrawing wash water carrying the contaminant from said cleansing unit.



Compl. specn. 15 pages

Drg. 2 sheets

CLASS : 99 D [XL 4]; 179 E [XL(6)];
95 C+D[XXIX(3)]

164236

Int. Cl. : B 65 D—23/00, 25/00, F 16 K—1/26,
1/38, 3/12.**AN IMPROVED EVACUATION VALVE FOR FITTING ON UNDERSIDE OF LID OF CONTAINERS HAVING RIGID WALL FOR STORING AND PRESERVING ARTICLES IN VACUUM.**

Applicants & Inventors : PRIYAI, KHANDERAO KULKARNI, VIJAY PRIYAI, KULKARNI MOHOR, 64/17, ERANDAVANE, PUNE, MAHARASHTRA, INDIA.

Application No. 351/Bom/1985 filed on December 23, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

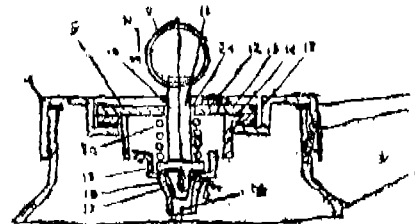
An improved evacuation valve for fitting on underside of lid of containers having rigid wall for storing and preserving articles in vacuum, comprising :

a body with a cover plate at the upper end and an inlet at its lower end followed by a hollow tapered portion in which a matching conical part of a valve plug fits tight;

the said valve plug having a straight upward extension passing through a hole in the said cover plate;

a spring surrounding the said straight extension of the valve plug with the lower end of spring resting on an integral flange at the lower end of the said straight extension of the valve plug and the upper end of the said spring resting under the cover plate so as to hold the plug in closed position under the spring force;

a ring provided at the upper end of the valve plug for pulling the said valve plug against the spring force and a tapered outlet provided in the said cover plate to receive tapered end of an evacuating pipe.



Compl. specn. 7 pages

Drg. 1 sheet

CLASS : 172 D 9

164237

Int. Cl. : D 01 H - 13/16, 13/18.

AN IMPROVED AUTOMATIC MECHANICAL STOP MOTION DEVICE FOR THE DRAFTING SYSTEM OF A RING SPINNING FRAME.

Applicant : SHRI DINESH MILLS LIMITED, AN INDIAN COMPANY, INCORPORATED UNDER THE COMPANIES ACT, 1956, PADRA ROAD, CITY OF VADODARA-390 005, GUJARAT, INDIA.

Inventor : DEEPAK RASIKLAL MEHTA.

Application No. 356/Bom/1985 filed on 23rd December, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

4 Claims

An improved automatic mechanical stop motion device for the drafting system of a ring spinning frame, characterised in that the bottom back roller comprises :

an inner roller common to all spindles and a separate outer roller for each spindle surrounding the inner roller and rotated by the inner roller by friction;

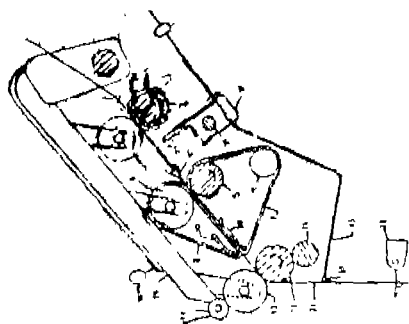
a ratchet wheel/a plurality of spaced pins fixed to one end of the said outer roller;

a bracket having a finger extending from it swingingly secured to a shaft/stationary bar provided in the drafting zone of the ring spinning frame;

a feeler wire secured to said bracket intermediate its ends;

the part of the feeler wire extending from the bracket upwardly and rearwardly being straight and fitted with a balancing weight;

the other part of the feeler wire being first bent downwardly near the bracket and then substantially at right angle near its middle part in the forward direction and fitted at the free end with a yarn guide.



Compl. specn. 11 pages

Drg. 5 sheets

CLASS : 89 [XLI(6)]

164238

Int. Cl. : G 01 N—3/28.

DEEP DRAWING TESTER FOR SHEET METAL WITH HYDRAULIC SYSTEM.

Applicant & Inventor : KUMAR BALRAM BHATTA, 408-A, POONAM APARTMENTS, DR. ANNIE BESANT ROAD, WORLI, BOMBAY-400 018, MAHARASHTRA, INDIA.

Application No. 358/Bom/1985 filed December 24, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

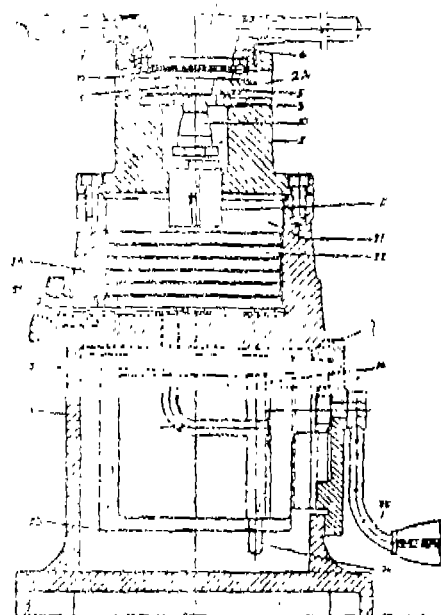
2 Claims

A deep drawing tester for sheet metal with hydraulic system comprising :

an upright cylinder body fitted near to top with the fixed bottom die and a rotatable clamping head attached with the upper die for clamping the specimen in between the bottom and top die, and below the bottom die is arranged the plunger mounted over the ram characterised by that the tester is provided with hydraulic cylinder and piston arrangement over the base of the instrument where the cylinder is an integral part of the said body and the ram is fitted over the piston;

the base of the instrument being constructed as an oil reservoir wherein is also housed a hydraulic gear pump to be operated externally by means of a rotating handle the suction end of the pump being located into the oil reservoir and the delivery end being opened below the said piston inside the cylinder and the cylinder is linked with a pressure gauge to indicate the pressure developed inside the said cylinder and further provided with discharge pipe line with release lever to deliver the oil back into the reservoir after the end of the operation;

the instrument being further provided with known measuring device to measure the travel of the plunger during operation.



Compl. specn. 7 pages

Drg. 2 sheets

Int. Cl. : 123 Gr. [1(4)]

164239

Int. Cl. : C 05 G—1/00; A 01 N—59/00.

A PROCESS OF MANUFACTURING AN IMPROVED LIQUID FOLIAR NUTRIENT FORMULATION FOR INCREASING CROP YIELD.

Applicant : GROWELL AGROCHEM (BOMBAY) PVT. LTD., 'GURUPRERNA', SHIVAJI PATH, POST BOX 257, THANE, PIN. 400 602, MAHARASHTRA, INDIA.

Inventor : DR. ASHEESH VINAY MEHTA.

Application No. 14/Bom/1986 filed January 8, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

2 Claims

A process of manufacturing an improved liquid foliar nutrient formulation for increasing crop yield comprising :

mixing of Macronutrients consisting 8% Nitrogen as amide, ammonium and nitrate;

8% Phosphorus as water soluble P_2O_5 ;

6% Potassium as water soluble K_2O ;

Micronutrients such as herein described—all in fully chelated form, chelated by ethylene diamine tetra-acetic acid;

0.2% Growth Hormones such as Alpha Naphthyl Acetic Acid;

0.1% Biostimulants such as Ammonia Meta Vanadate and 0.025% Vitamin such as Thiamine and water

quantity sufficient to make up 100% and such that adhesion properties are maintained by adding propylene glycol and pH is regulated between 5.6 to 6.0 by adding buffering substance like ammonia.

Compl. specn. 11 pages

Drg. Nil

CLASS : 64 B 1 [LVIII(4)]

164240

Int. Cl. : H 01 R-9.00.

SHIELDED GUARD FOR ELECTRONIC CIRCUIT INTERCONNECTIONS (WITH EMI SHIELDING).

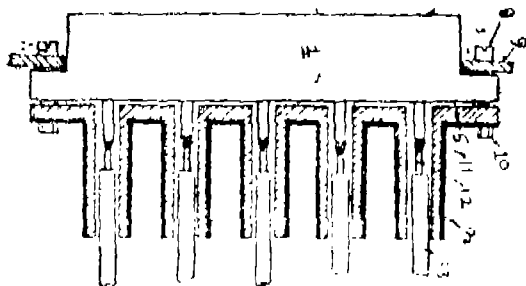
Applicant & Inventor : NANDAKUMAR RAMCHANDRA JOSHI, 66, SAHAWAS, KARVE NAGAR. PUNE-411 052. MAHARASHTRA, INDIA.

Application No. 17/Bom/86 filed on January 13, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

7 Claims

An electrical/electronic connector assembly for electrical and mechanical protection as well as individual shielding from Electro-Magnetic Interference (EMI) of each of the wired interconnections, comprising a detachable guard of an insulating material which is selectively plated by a metal or a number of plated metallic coatings of different metals and means of assembling the guard with the connector by using nuts, bolts and spacers and passing each interconnecting wire through the hole on the guard corresponding to each of the connector contacts joined to the interconnecting wires.



Compl. specn. 6 pages

Drg. Nil

Provisional specn. 5 pages

Drg. 2 sheets

CLASS : 161 D

164241

Int. Cl. : F 16 M 9/00.

A FIBREGLASS REINFORCED PLASTIC GRID PROVIDING A NONSKID SURFACE ON SANDY, MARSHY OR LIKE YIELDING SOIL AND A METHOD OF MAKING THE SAME.

Applicant : CEAT TYRES OF INDIA LTD., HAVING OUR REGISTERED OFFICE AT NO. 463 DR. ANNIE BESANT ROAD, WORLI, BOMBAY-400 025. A COMPANY DULY ORGANISED AND EXISTING UNDER THE LAWS OF THE UNION OF INDIA.

Inventor : SARMA SUNDARAM.

Application No. 75/Mas/85 January 28, 1985.

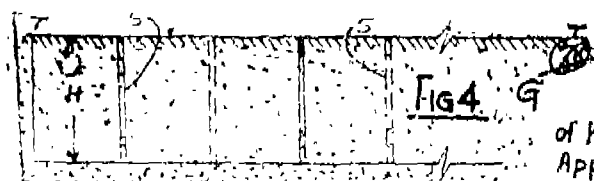
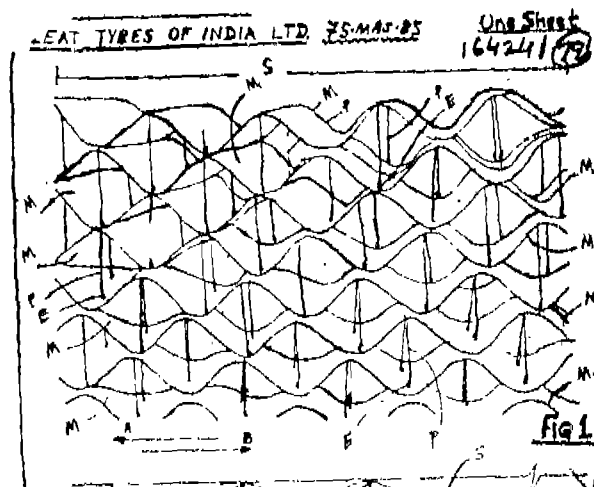
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims

A fibreglass reinforced plastic grid providing a nonskid surface on sandy, marshy or like yielding soil comprising :

a plurality of curvilinear FRP strip members stacked side by side against each other on the long edges of the strip members, each such member being movably linked at the sides by pins and eyes to the adjacent members;

the stack being thus rendered collapsible breadthwise for convenient transportation and also expandable breadthwise for being pressed into the soil to provide a nonskid surface flush with the soil surface.



Compl. specn. 8 pages

Drg. 1 sheet

Int. Cl. : B 21 D 51/26.

164242

METHOD OF AND APPARATUS FOR FORMING A REINFORCED CAN END.

Applicant : METAL BOX P.L.C., A BRITISH COMPANY, OF QUEENS HOUSE, FORBURY ROAD, READING RG1 3JE, ENGLAND.

Inventor : WILLIAM L. TAUBE; DAVID ANDREW ROBERTS.

Application No. 118/Mas/85 filed 12 February 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

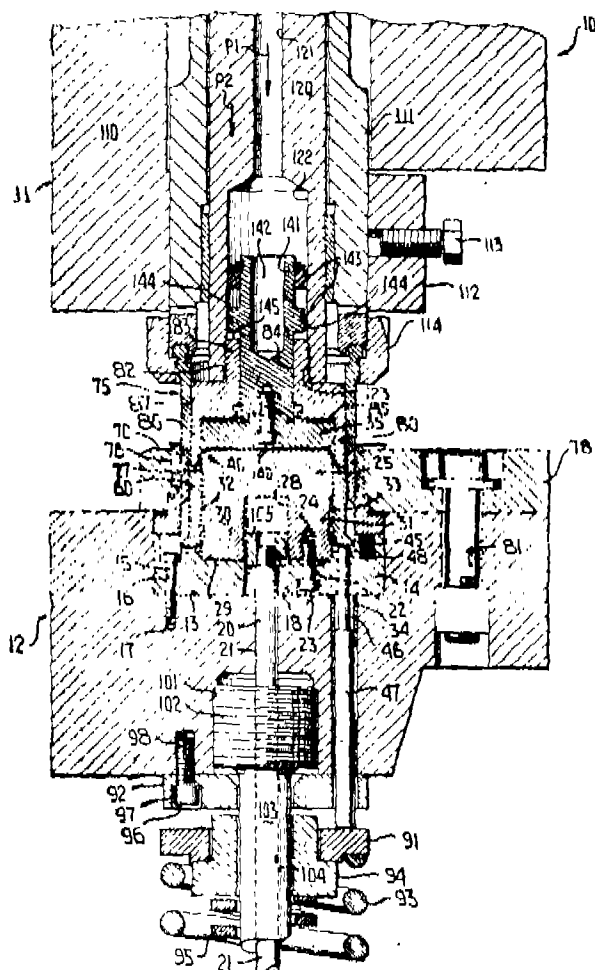
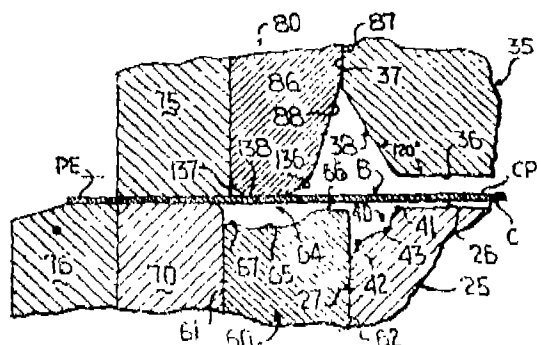
13 Claims

A method of making a reinforced pressure-resistant can end comprising the steps of providing a substantially planar metallic blank having a central portion and a peripheral portion, deforming the blank in a first deformation step to cause movement apart of the central and peripheral portions to offset said portions out of a common plane, thus drawing the blank into a generally flanged cup-shaped configuration defined by the central portion, a radius, a frusto-conical wall and an annular flange, and, in a second deformation step, causing movement towards one another of the central portion and annular flange to deform at least at part of the metal of the radius, in the absence of restraint, through the plane of the central portion to the side thereof remote from the flange, thus forming a reinforcing bead for the can end connecting the frusto-conical wall to the central panel, wherein :

(a) the formation of the cup shaped configuration and subsequent reforming to a can end having a reinforcing bead is carried out by use of coaxially

aligned relatively movable metal forming tools within a single tool set comprising pairs of punch and die sections which co-operatively inter-engage to form the can end, said punch sections as well as said die sections being circular and concentrically positioned within and about one another; and in that

- (b) the central portion of the blank is gripped during the first drawing step and while the central portion is still gripped, the second deformation step is carried out.



Compl. specn. 36 pages

Drw. 9 sheets

Int. Cl.4 C 07 C 47/00

164243

A HYDROFORMYLATION PROCESS FOR PRODUCING ALDEHYDES

Applicant : UNION CARBIDE CORPORATION, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, U.S.A., OF OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT 06817, UNITED STATES OF AMERICA.

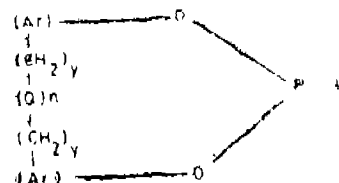
Inventors: (1) ERNST BILLING
(2) ANTHONY GEORGE ABATJOGLOU
(3) DAVID ROBERT BRYANT
(4) REX EUGENE MURRAY
(5) JOHN MICHAEL MAHER

Application No. 133/Mas/85 filed February 16, 1985.

Appropriate Office for Opposition proceedings (Rule 4, patents Rules, 1972), patent Office, Madras Branch.

20 Claims

A hydroformylation process for producing aldehydes which comprises reacting an olefinically unsaturated organic compound selected from the group consisting of alphaolefins containing from 2 to 20 carbon atoms, internal olefins containing from 4 to 20 carbon atoms, and mixtures of such alpha and internal olefins with carbon monoxide and hydrogen in the presence of a Group VIII transition metal diorganophosphite complex catalyst consisting essentially of a Group VIII transition metal complexed with carbon monoxide and in the added presence of a free diorganophosphite ligand having the formula I of the accompanying drawings,



wherein W represents an unsubstituted or substituted monovalent hydrocarbon radical; wherein each Ar group represents an identical or different substituted or unsubstituted aryl radical, wherein each y individually has a value of 0 to 1, wherein & q is a divalent bridging group selected from the class consisting of $\text{--CR}^1\text{R}^2\text{--}$, --O-- , --S-- , $\text{--NR}^3\text{--}$, $\text{--SiR}^4\text{R}^5\text{--}$ and --CO-- wherein each R¹ and R² radical individually represents a radical selected from the group consisting of hydrogen, alkyl of 1 to 12 carbon atoms phenyl, tolyl and anisyl, wherein each R³, R⁴ and R⁵ radical individually represents --H or --CH_3 , and wherein n has a value of 0 to 1, the reaction being carried out at a temperature of from 50°C to 12°C and a total gas pressure of hydrogen, carbon dioxide and olefinically unsaturated organic compound of from 1 to 1500 Psia, recovering the aldehyde in a known manner and wherein a portion of the liquid hydroformylation reaction medium is optionally removed from the hydroformylation reaction zone and treated with a weakly basic anion exchange resin either prior to and/or after the separation of the aldehyde therefrom and is returned to the hydroformylation reaction zone.

(Cont-164 Pages Drwgs --38 sheets)

Int. CLASS⁴: C 10 B 49/14

164244

A PLANT FOR GASIFICATION OF POWDERED COAL.

Applicant : UNION SIDERURGIQUE DU NORD ET DE L'EST DE LA FRANCE PAR ABREVIATION "USINOR" OF 4 PLACE DE LA PYRAMIDE, 92070 PUTEAUX, FRANCE, OF FRENCH NATIONALITY.

Inventor : JEAN CORDIER; MARCEL LEMAIRE.

Application No. 134/Mas/85 filed 16 February 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims

A plant for the gasification of powdered coal comprising :

a gasification reactor containing a liquid metal bath,

at least one nozzle extending into the reactor for introducing the powdered coal and a comburent gas into the reactor;

means defining an outlet orifice in the reactor for discharging the gases produced in the reactor wherein a gas flue incorporating a water boiler;

a vapour superheater having a superheated vapour outlet;

a dust remover;

a thermal exchanger for heating a drying fluid and having a drying fluid inlet and a dried fluid outlet;

a conditioning tower;

a filtering device and a storage device for the gas communicating with the filtering device;

a water vapour separator connecting said boiler to the superheater;

means for preparing and supplying the powdered coal compressor means for feeding the comburent gas;

means for supplying said drying fluid;

a first conduit connecting said means for preparing and supplying powdered coal to said nozzle;

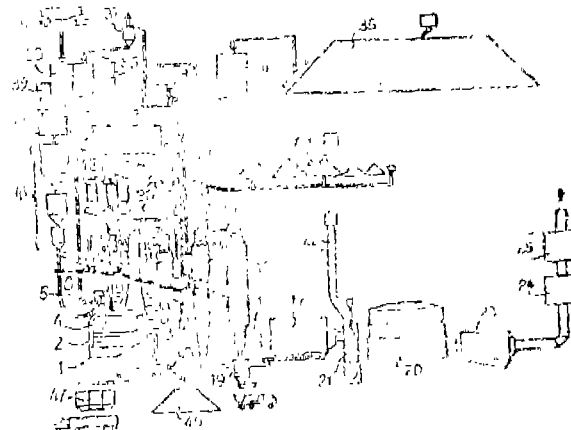
a second conduit connecting the superheated vapour outlet of the super heater to said first conduit;

a third conduit connecting said superheated vapour outlet of the superheater to the compressor means for driving said compressor means;

a fourth conduit connecting said means for supplying said drying fluid to the said thermal exchanger;

a fifth conduit connecting said heated fluid outlet of the thermal exchanger to said means for preparing and supplying dried powdered coal; and

a sixth conduit connecting said compressor means to said nozzle are provided in series communicating with one another so as to form a continuous passage-way starting at said outlet orifice and transversing one after the other by the gases issued from the reactor.



Compl. specn. 14 pages

Drw. 1 sheet

Int. CLASS⁴: F 04 B 49/00

164245

WOBBLE PLATE TYPE COMPRESSOR WITH A CAPACITY ADJUSTING MECHANISM.

Applicant : SANDEN CORPORATION, OF 20, KOTO-BUKI-CHO ISESAKI-SHI, GUNMAEN, JAPAN.

Inventor : KIYOSHI TERAUCHI.

Application No. 141/Mas/85 filed 18 February 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims

A capacity adjustable swash plate type refrigerant compressor comprising :

a compressor housing having a cylinder block with a plurality of cylinders, a plurality of pistons slidably fitted within said cylinders, respectively;

a front end plate disposed on a front opening end of said compressor housing to thereby define a crank chamber within said compressor housing adjacent said cylinder block, an input drive shaft rotatably supported by a bearing in said front end plate;

converting means for converting rotational motion of said input drive shaft into axial reciprocating motion of said pistons;

a rear end plate disposed on an opposite rear end of said compressor housing and having a suction chamber and a discharge chamber;

a passage means providing communication between said crank chamber and said suction chamber, and valve means for controlling the closing and opening of said passage means to thereby change gas pressure in said crank chamber so that the reciprocating stroke of said pistons is changed so as to adjust the compressing capacity;

wherein said converting means comprises a swash plate nutatably and rotatably supported on said input drive shaft by spherical bush;

a hinge coupling mechanism for drivingly connecting said swash plate to said input drive shaft so as to rotate said swash plate together with said input drive shaft;

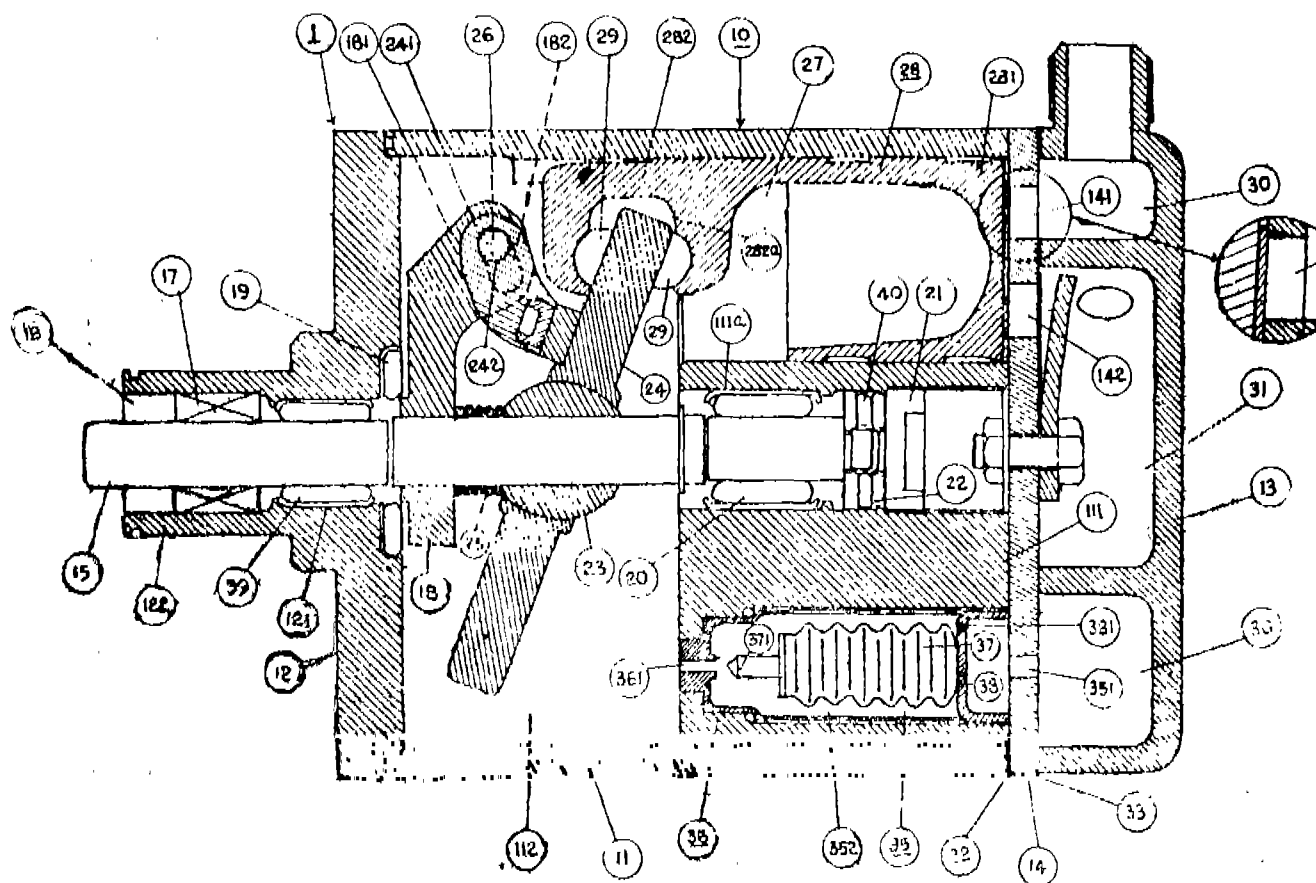
said hinge coupling mechanism permitting said swash plate;

said connecting mechanism comprising a cutout portion formed in said each piston;

said cutout portion straddling an outer peripheral edge of said swash plate so that each piston is connected to said swash plate.

Com. specn. 16 pages

Dr. 2 sheets



Int. CLASS⁴ : C 10 J 3/20.

164246

COAL GASIFICATION REACTOR OF THE TYPE EMPLOYING A BATH OF LIQUID METAL.

Applicant : UNION SIDERURGIQUE DU NORD ET DE L'EST DE LA FRANCE PAR ABREVIATION "USINOR", OF DEFENCE 9-4 PLACE DE LA PYRAMIDE-92070 PUTEAUX, FRANCE, OF FRENCH NATIONALITY.

Inventor : JEAN CORDIER; MARCEL LEMAIRE.

Application No. 145/Mas/85 filed 20 February 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

9 Claims

A reactor for the gasification of coal in the powdered form, comprising :

an enclosure containing a bath of liquid iron and a means for injecting powdered coal located in the upper part of the enclosure;

said reactor being substantially cylindrical having an oblong shape in a plane perpendicular to the generatrices;

the lateral walls and the bottom wall having a refractory lining;

a discharge orifice for the slag supernatant on the surface of the iron and discharge orifice for the iron being provided on the said reactor;

the said reactor having a dome with a sealed joint and defining at least one orifice for introducing means for injecting powdered coal through a sealed box;

an outlet for exhausting gases produced in the reactor;

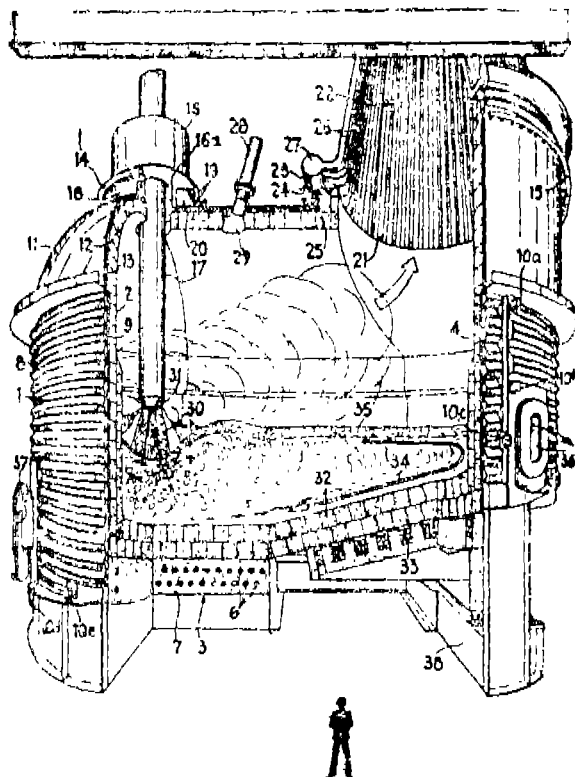
said two discharge orifices being disposed respectively in the vicinity of opposite ends of the reactor;

an orifice for introducing addition elements such as fluxes, melting agent, lime, dolomite, iron scrap and ferro alloys, means for cooling the lateral walls;

the bottom wall of the vessel and the dome;

the vessel comprising at least one bottom part in the shape of an inclined plane in a part thereof which

is not exposed to the depression created in the surface of the bath of liquid iron by the jet of powdered coal through the injection means.



Compl. specn. 15 pages

Drg. 1 sheet

Int. CLASS 4; C 12 P 17/00

164247

PROCESS FOR THE PRODUCTION OF L-CARNITINE.

Applicant : LONZA LIMITED, OF GAMPEL/VALAIS, SWITZERLAND, A JOIN-STOCK COMPANY ORGANISED UNDER THE LAWS OF SWITZERLAND.

Inventor : HANS KULLA; PAVEL LEHKY.

Application No. 177/Mas/85 filed 7 March 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

2 Claims

Process for the production of L-carnitine, wherein a micro-organism selected from HK 13, HK 13316 and HK 4 or a descendant or mutant thereof which is able to produce L-carnitine from crotonobetaine and/or γ -butyrobetaine but is not able to catabolise L-carnitine is cultured with crotonobetaine and/or γ -butyrobetaine in the presence of a growth substrate selected from dimethyl-glycine, choline, glutamate, acetate and/or betaine in an amount of 0.1 to 10% by weight and isolating the enriched L-carnitine in a known manner.

L-carnitine is used for the treatment of hyperlipidaemia.

Compl. specn. 20 pages

Drg. Nil

Int. CLASS 4; D 01 H 1/02

164248

IMPROVEMENTS IN OR RELATING TO RING TWISTING FRAME.

Applicant : VEEJAY LAKSHMI ENGINEERING WORKS PRIVATE LIMITED, HAVING REGISTERED OFFICE AT 8 A.T.T. COLONY, COIMBATORE-641 018, TAMIL NADU, INDIA, AN INDIAN ORGANISATION.

Inventors : (1) MUTHUKRISHNA NAIDU GOVINDARAJU, (2) NATTAMAI KUPPUSWAMY JAGADHEESAN.

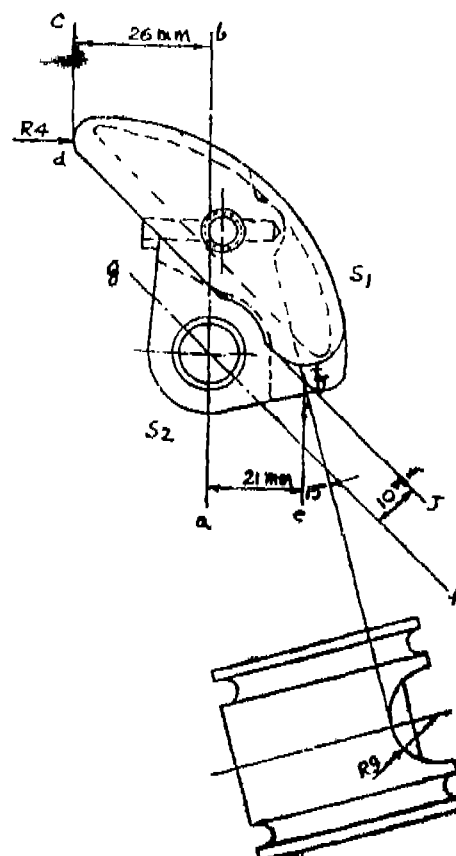
Application No. 5/Mas/1986 filed January 6, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

2 Claims

A ring twisting frame having a plurality of bottom rollers each having in operational engagement a plurality of top rollers mounted in the conventional manner on the top part of the ring twisting frame, yarn guides being provided in the vicinity of the said top rollers for guiding yarns from wet or dry processing sections to the said roller system and also to deliver yarns from the roller system through additional yarn guides to respective spindles, said roller system being provided with a set of as many segment stoppers as there are top rollers, each said segment stopper being freely mounted in an offset manner at the top part of the frame such that in the instance where the segment stopper is not obstructed from its free function, it is in the engagement with the top roller, each said segment stopper also having a thread guide for guiding to the spindle, characterized by the improvement wherein the major curved portion of the segment stopper is wider than usual so as to result in an increase in weight of the segment stopper by 8 to 10%, while the portion of the segment stopper opposite said major curved portion being made lighter in weight by 4 to 5%, the angle of the curvature of the major curved portion S_1 starting from the bottom most point to the topmost point along the curved surface being formed in section as follows :

- the line 'e-f' (Fig. 2a) drawn perpendicular to the tangent at the beginning of the 15° inclination of R_0 curve is disposed at 21 mm from the line a-b passing through the central axis as shown in Fig. 2b of the drawing;
- by having the straight line portion represented by line d-j at a distance of 10 mm from the line e-f (Fig. 2b) passing through the central axis as shown in Fig. 2b of the drawing;
- by bringing class the R_4 radius portion such that the tangent c-d drawn at the beginning of the R_4 radius is disposed at 26 mm from the line 'a-b' passing through the central axis as shown in Fig. 2b of the drawing.



Compl. specn. 13 pages

Drg. 2 sheets

Int. CLASS 4: A 01 N 61/00

164249

A PROCESS FOR THE PREPARATION OF AN EMULSION FROM SHELLAC SUITABLE FOR THE GROWTH OF PLANTS.

Applicant : SOCIETE DES PRODUITS NESTLE S.A., CASE POSTALE 353, 1800 VEVEY, SWITZERLAND, A COMPANY INCORPORATED IN SWITZERLAND.

Inventor : PIERRE HIRSBRUNNER.

Application No. 632/Mas/86 filed 5 August 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

A process for the preparation of an emulsion from shellac suitable for stimulating the growth of plants characterised in that the shellac is dissolved at a temperature of 30 to 50°C in a solvent selected from the group consisting C₁-C₄ alcohol, a halogenated solvent and a mixture of said alcohol and said halogenated solvent; followed by coarse filtration with a sieve having a mesh width of 600 to 1000 microns, separating the solid particle suspension by filtration, decantation or by centrifuging to obtain a decantation or by centrifuging to obtain a residue comprising 70 to 80% partially esterified primary C₂₈-C₃₄ alcohol, dissolving this residue at a temperature of 70 to 80°C in a solvent selected from C₈-C₁₂ alcohol, toluene and a higher ether with a known emulsifier and subsequently incorporating said solution in water with continuous stirring at a temperature of from 60° to 80°C to form an emulsion which is directly sprayable on to the plants to be treated.

Compl. specn. 10 pages

Drg. Nil

Int. CL: A 61 K 9/22.

164250

A PROCES FOR THE PREPARATION OF A SOLID SUSTAINED RELEASE PHARMACEUTICAL FORMULATION.

Applicant : TE BOOTS COMPANY PLC., A BRITISH COMPANY OF 1 THANE ROAD WEST, NOTTINGHAM, NG 2 3AA, ENGLAND.

Inventors : (1) MAHENDRA GOVIND PANKHANIA, (2) COLIN DAVID MELIA AND (3) JOHN FRANCIS LAMPARD.

Application No. 9/Mas/87 filed January 7, 1987.

Convention dated to 18th January, 1986, Great Britain No. 86/01204.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A process for the preparation of a solid sustained release pharmaceutical formulation comprising a compressed mixture of a pharmacologically active ingredient such as herein described and 7.5 to 28% by weight of the formulation of a sustained release carrier, said carrier comprising from 50 to 100% xanthan gum and 50 to 0% polymer such as herein described having sustained release carrier with the pharmacologically active ingredient and comprising the mixture to produce a solid formulation.

Compl. specn. 39 pages

Drg. Nil

R. A. ACHARYA,
Controller General of Patents,
Designs and Trade Marks.

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The *Agrobacterium* strains were grown in YEA medium for 24 h at 28 °C. The cell concentration was adjusted to 1.0 × 10⁸ cells/ml. The cell suspension was mixed with the plant tissue and incubated for 24 h at 28 °C. The plant tissue was then cultured on the selective medium. The transformation efficiency was determined as the number of transformants per 100 mg of plant tissue. The data are the mean ± SD of three independent experiments.